



**WEAPON SYSTEM COST RETRIEVAL SYSTEM (H036C)
SYSTEM DESCRIPTION AND PRODUCT GUIDE
FOR FY75-FY93 DATA**

NOTICE: This manual is currently in draft status. It will be published in final form when all required reviews and coordinations are finalized. This publication is available digitally on the HQ AFMC public web site at www.afmc-pub.wpafb.af.mil/HQ-AFMC/FM/WSCRS/wscrs.htm. If you lack access, contact AFMC/FMP.

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This manual for the Weapon System Cost Retrieval System (WSCRS) guides functional users in interpreting, understanding, and effectively using the historic weapon system cost data available in the WSCRS databases, and includes procedures for requesting data products. This manual applies to any Department of Defense (DoD) or United States Air Force (USAF) organization, or to any person or organization outside DoD or the Federal Government that uses WSCRS data. Send comments and suggested improvements to ATTN: H036C (WSCRS) OPR, HQ AFMC/FMP, 4375 Chidlaw Road Room N233, Wright-Patterson AFB, OH 45433-5006.

SUMMARY OF REVISIONS

This change adds various new cost products and product descriptions. Also, this manual is now segmented into 2 volumes. Volume 1 applies to FY75-FY93 cost data, and pertains to the weapon system costs as defined prior to the implementation of the Defense Business Operations Fund (DBOF). Volume 2 applies to FY94 and later cost data, and pertains to weapon system costs as defined after implementation of the DBOF. The WSCRS databases retain different cost elements for each of the two periods, requiring separate volumes for clarity.

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Chapter 1

BACKGROUND, OBJECTIVES, AND SCOPE

Section A--Document Overview

1.1. Volume Content. Volume 1 pertains to the FY75-FY93 WSCRS O&S cost data, and describes the costs as defined prior to the implementation of the Defense Business Operations Fund (DBOF). Refer to Volume 2 for the FY94 and later cost data as defined after implementation of the DBOF.

[Note: On 9 Nov 89, OSD issued Defense Management Report Decision (DMRD) 904, Stock Funding of Depot Level Repairables. DMRD 904 changed the Air Force funding source (for the procurement and depot maintenance of reparable items) from direct appropriations to Stock Funds. The implementation of DMRD 904 was phased in over FY91-FY94. The procurement and depot maintenance of reparable items is now funded through the Supply Management business area of the DBOF.]

1.2. Intended Audience of the WSCRS Manual Volume 1.

This manual for the Weapon System Cost Retrieval System (WSCRS) provides functional users with the information necessary to appropriately and effectively use the data available in the WSCRS databases, pertaining to FY75-FY93. WSCRS supports cost analysis activities performed by the following:

- Office of the Secretary of Defense
- Headquarters United States Air Force
- Air Force Cost Analysis Agency
- Headquarters Air Force Materiel Command
- Other Major Commands
- Aerospace Contractors
- Commercial "Think Tanks"
- Educational Institutions

1.3. References, Acronyms, Terms, and Definitions. This manual is written to be easily understood by its primary audience. However, there are certain terms, acronyms, and definitions that are commonly used in performing the functions described here. These are shown in Attachment 1 and the user is advised to review them before reading this document. In addition, required and related publications are listed in Attachment 1.

1.4. Security and Privacy Considerations. All WSCRS data is unclassified. Procedures governing the release of WSCRS data are contained in HQ AFMC/FMP policy and procedures, and in Air Force Instruction (AFI) 37-131 for Freedom of Information Act Program requests.

Section B--System Overview

1.5. Nature of WSCRS. WSCRS is designed to maintain consistent, accurate, reliable, usable cost data, to support the analyses and decision-making of WSCRS data users. WSCRS provides depot repair cost and condemnation costs of major USAF aircraft, missiles, and engines. WSCRS collects and allocates depot repair and condemnation cost expenditures to weapon systems by fiscal year. For each fiscal year, WSCRS builds and retains a cost Detail Database and a cost Summary Database. These cost databases can be interrogated for retrieval and display of weapon system costs. In addition, WSCRS collects weapon system program data, engine utilization data, and engine application data by fiscal year. WSCRS retains the program and engine data in the Weapon System Program Database (WSPD). The WSPD data provides information for analyzing year-to-year cost fluctuations within a weapon system.

1.6. History of WSCRS Development. HQ AFMC/FMP originally developed WSCRS to support organic cost analysis projects. Independent cost analyses, source selections, cost estimating relationship (CER) development, and other cost analysis projects required vast amounts of historic weapon system cost data and long lead-times for data collection. The cost data collected were often inconsistent from project to project because of different data sources, different cost definitions (requirements vs. obligations vs. expenditures), and different

methods of allocating costs to weapon systems. The development of WSCRS alleviated these problems by providing one consistent source of historic cost information, and by retaining that information in cost databases for easy access and timely retrieval. Shortly after WSCRS was operational and available for HQ AFMC/FMP use, other USAF and OSD cost analysis organizations and aerospace contractors requested and used the WSCRS data to support their cost analysis activities. SAF/FMC directed that the WSCRS cost data be the source for development of the weapon system depot maintenance cost factors published in Air Force Instruction (AFI) 65-503. HQ AFMC/FMP initiated DAR LOG-ACM-H80-013 to establish WSCRS as an official AFMC production system. The AFMC data system designator for WSCRS is "H036C".

1.7. Current User and Support Agency. HQ AFMC/FMP acts as Office of Primary Responsibility (OPR) for WSCRS. HQ AFMC/FMP provides manual input data for the annual processing cycle. HQ AFMC/FMP maintains the WSCRS Historic Reference Manual, to provide an audit trail of all changes to the system that may affect the content or the representation of database historic costs. HQ AFMC/FMP responds to user requests for system products and special requests for cost data, and provides guidance to users on the appropriate application of the WSCRS cost data. Additionally, HQ AFMC/FMP analyzes and evaluates user recommendations for new system requirements or system enhancements, and ini-

tiates action to incorporate improvements into the system. DISA/DECC-Ogden is responsible for the computer operations of the system. AFMC MSG develops and maintains the system code.

1.8. Operational Environment.

1.8.1. Processing Schedule. Interrogations of the WSCRS Detail Database, the WSCRS Summary Database, or the Weapon System Program Database are on an as-required basis,

and the interrogations are satisfied with either same day or overnight turnaround.

1.8.2. Operating Site. H036C (WSCRS) is hosted on an IBM Mainframe at the Defense Enterprise Computing Center (DECC) facility of the Defense Information System Agency (DISA) located in Ogden, UT. Additionally, several functions, including the WSCRS Interrogation Menu System, WSCRS Stock Number Interrogation System, and CD-ROM system backup are PC based.

Chapter 2

SYSTEM DESCRIPTION

Section A--Capabilities of the System

2.1. WSCRS FY75-FY93 Cost Elements. The Weapon System Cost Retrieval System (WSCRS) collects and assembles the historic depot repair cost expenditures, and the base level and depot level condemnation cost expenditures for the major USAF aircraft, missiles, and engines. WSCRS identifies aircraft and missile weapon systems by standard MDS. WSCRS identifies engine propulsion systems by TMS. Costs are collected by fiscal year for the systems, subsystems, and exchangeable items used on approximately 150 weapon systems. Costs are tracked and reported to the reparable end item (weapon system MDS, propulsion system TMS, or national stock number), to the weapon system work breakdown structure, and to the work performance category. WSCRS tracks the following depot maintenance cost elements:

- Direct Civilian Labor Cost
- Other Direct Civilian Labor Cost
- Direct Military Labor Cost
- Other Direct Military Labor Cost
- Funded Direct Material Cost
- Unfunded Direct Material Cost-Investment Items
- Unfunded Direct Material Cost-Exchangeable Items
- Unfunded Direct Material Cost-Modification Kits
- Unfunded Direct Material Cost-Expense Items
- Funded Other Direct Cost
- Unfunded Other Direct Cost
- Funded Operations Overhead Cost
- Unfunded Operations Overhead Cost
- Funded General and Administrative Cost
- Unfunded General and Administrative Cost
- Contractor/Interservice Cost
- Government Furnished Material-Investment Items
- Government Furnished Material-Exchangeable Items
- Government Furnished Material-Modification Kits
- Government Furnished Material-Expense Items
- Funded Government Furnished Services
- Unfunded Government Furnished Services
- Funded Organic Maintenance Support Cost
- Unfunded Organic Maintenance Support Cost
- Condemnation Cost
- Contractor Logistics Support Cost
- Interim Contractor Support Cost-Depot Level
- Interim Contractor Support Cost-Base Level
- Direct Civilian Labor Hours
- Other Direct Civilian Labor Hours
- Direct Military Labor Hours
- Other Direct Military Labor Hours

2.2. WSCRS FY75-FY93 Database Content. WSCRS retains historic depot repair and condemnation costs, and his-

toric weapon system program data for aircraft, missiles, and engines by fiscal year in the WSCRS Detail Database, WSCRS Summary Database, and Weapon System Program Database. Interrogation routines allow the WSCRS OPR to selectively extract data from any of the WSCRS databases. WSCRS can generate any report on an “as-required” basis, with the cost content tailored to satisfy user needs. The WSCRS Historic Reference Manual (HRM) provides an audit trail of changes that may affect the content of the WSCRS databases. The HRM tracks changes from year to year, including any changes in data sources, data content, data definition, any changes in methodologies of computing costs, any changes in reporting requirements, and any changes in data constraints or assumptions. With this history, analysts can normalize the database costs for year-to-year changes to obtain consistent cost information for weapon system cost studies.

2.2.1. WSCRS FY75-FY93 Detail Database. The WSCRS Detail Database stores depot repair and condemnation costs by fiscal year for each weapon system standard MDS. Depot repair costs are identified to the aircraft or missile MDS, to the propulsion system TMS, or to the master or subgroup master National Stock Number (NSN) repaired. Condemnation costs are identified to master or subgroup master NSN. The repair costs of each aircraft, missile, engine, or NSN are itemized to the weapon system work breakdown structure, and to the work performance category, e.g., repair, analytical rework, inspection and test, etc. The WSCRS Detail Database stores all costs in then-year dollars. All data for one MDS are contained in three record types:

- a. NSN Records (“Type 1”) contain depot repair and condemnation exchangeable item costs that are identified to a national stock number (NSN). For each NSN, repair cost detail is retained for each unique combination of MDS-TMS-NSN-WPC. These NSN records contain the repair costs for “management of items subject to repair” (MISTR) designated items.
- b. The FSC Records (“Type 2”) contain exchangeable item costs that are identified to a Federal Supply Class (FSC). Depot repair costs for Technical Order Compliance (TOC) kits, part numbers, and non-cataloged, locally purchased, or locally manufactured items can be identified as weapon system costs, but they cannot be related to a specific weapon system because of limited cross-reference information. Therefore, in preference to excluding these weapon system costs, the total cost by FSC is allocated over all applicable weapon systems. For each FSC, repair cost detail is retained for each unique combination of MDS-FSC-WPC.
- c. The Overhaul Records (“Type 3”) contain the on-equipment depot overhaul costs for the weapon system MDS, and for the propulsion system TMS applications on the MDS. Repair cost detail is retained for each unique combination of MDS-TMS-WPC.

2.2.2. WSCRS FY75-FY93 Summary Database. The WSCRS Summary Database (SDB) stores depot repair and condemnation costs in two database segments per fiscal year. SDB Segment 1 contains costs for aircraft and missiles. SDB Segment 2 contains costs for engines. All Summary Database costs are obtained from the WSCRS Detail Database. For each aircraft, missile, or engine on the Detail Database, costs are summarized to two-digit system level work unit code (WUC) for the NSN exchangeable item off-equipment repair costs, and to aircraft, missile, or engine for the on-equipment overhaul repair costs. All depot repair costs are identified to the weapon system work breakdown structure, and are itemized as Class IV Modification Installation costs, Class V Modification Installation costs, Interim Contractor Support-Depot Level costs, Interim Contractor Support-Base Level costs, Contractor Logistics Support costs, and Baseline costs. The WSCRS Summary Database stores all costs in then-year dollars.

2.2.2.1. SDB Segment 1 cost are summarized by MDS for each fiscal year. All data for one MDS are contained in four record types:

- a. Program Data Records contain the MDS and fleet actual flying hours and inventory months, the MDS programmed flying hours and inventories, and the MDS popular name.
- b. WUC Cost Summary Records contain off-equipment depot repair and condemnation costs summarized to the two-digit system level work unit code (WUC). The costs are summarized from information contained in the "Type 1" and "Type 2" records on the WSCRS Detail Database. Within each two-digit WUC summary, costs are separately identified as Class IV Modification Installation costs, Class V Modification Installation costs, and Baseline costs.
- c. Overhaul Cost Summary Records contain the total depot repair on-equipment overhaul costs summarized by MDS or TMS. The costs are summarized from information contained in the "Type 3" records on the WSCRS Detail Database. Within each overhaul cost summary, costs are separately identified as Class IV Modification Installation costs, Class V Modification Installation costs, Interim Contractor Support-Depot Level costs, Interim Contractor Support-Base Level costs, Contractor Logistics Support costs, and Baseline costs.
- d. WBS Cost Summary Records contain costs summarized by the weapon system work breakdown structure (WBS). The costs are summarized from information contained in "Type 1", "Type 2", and "Type 3" records on the WSCRS Detail Database. Within each WBS summary, costs are separately identified as off-equipment exchangeable item repair costs and as on-equipment overhaul repair cost. These off-equipment exchangeable item costs and on-equipment overhaul costs are further separately identified as Class IV Modification Installation costs, Class V Modification Installation costs, Interim Contractor Support-Depot Level costs, Interim Contractor Support-Base

Level costs, Contractor Logistics Support costs, and Baseline costs.

2.2.2.2. SDB Segment 2 costs are summarized by TMS for each fiscal year. All engine costs are contained in one record type, the Engine Cost Record. Engine Cost Records contain costs summarized by the engine accessories and engine overhaul WBSs. The engine costs are summarized from information contained in "Type 1" (engine accessories) and "Type 3" (engine overhaul) records on the WSCRS DDB. Costs are separately identified as off-equipment engine accessories costs and as on-equipment engine overhaul costs. These off-equipment engine accessories costs and on-equipment overhaul costs are further separately identified as Class IV Modification Installation costs, Class V Modification Installation costs, Interim Contractor Support - Depot Level costs, Interim Contractor Support - Base Level costs, Contractor Logistics Support costs, and Baseline costs.

2.2.3. Weapon System Program Database. WSCRS also collects and assembles historic program data for each aircraft, missile and engine. The historic program data provides useful reference information when analyzing year-to-year cost fluctuations within a weapon system. Weapon system utilization data (actual and programmed) are collected by fiscal year. Weapon system standard MDS to actual MDS relationships are tracked by fiscal year. Weapon system engine changes are tracked by fiscal year. The historic program data are retained indefinitely and are accessible in the Weapon System Program Database. This database contains data for FY75 and after. Specific data elements retained in the WSPD are the following.

- a. The MDS Utilization data in the WSPD record contains the standard MDS actual flying hours, actual inventory, programmed flying hours, programmed inventories, and the MDS popular name.
- b. The Standard-Actual MDS data in the WSPD record contains the standard MDS to actual MDS relationships for each fiscal year.
- c. The Application data in the record identify the engines that are used on the aircraft or missile as of the end of each fiscal year.

2.3. Accuracy and Validity. Accuracy of mathematical calculations are noted below.

2.3.1. WSCRS Detail Database Computations. Labor costs, labor hours, and material costs are reported to the nearest whole number. Average repair cost, condemnation cost per flying hour (or per missile), and depot maintenance cost per flying hour (or per missile) are expressed in dollars and cents. Condemnation rate and depot maintenance rate are accurate to the nearest three-position decimal. The allocation factor computation is accurate to the nearest six-position decimal. All costs displayed on reports generated from the DDB are expressed to the nearest whole dollar or to the nearest cent.

2.3.2. WSCRS Summary Database Computations. All computations for the Summary Database are to the nearest whole number. All costs displayed on the reports generated from the SDB are to the nearest whole dollar.

2.4. System Limitations and Constraints.

2.4.1. Direct Access to WSCRS. HQ AFMC/FMP, as OPR for the H036C (WSCRS) system, is currently the only user authorized to access the WSCRS databases. Users of WSCRS data must submit their request for information through HQ AFMC/FMP as described in Chapter 5.

2.4.2. Cost Allocation Scheme. WSCRS was developed under the constraint of using available information from existing Air Force data systems. Since few existing systems collect costs identified directly to a weapon system MDS, allocation of costs to an aircraft, missile, or engine was necessary for common items. The WSCRS allocations of cost are based on flying hour ratios and on inventory ratios. The allocation

scheme does not account for the effect that different missions or environmental conditions may have in driving costs.

2.4.3. National Stock Number and Work Unit Code Data. WSCRS does not have an up-to-date NSN-MDS-WUC master file, therefore WSCRS is not able to identify all NSN item costs to five-digit WUCs. When WSCRS does not have the five-digit WUC identity, it assigns a two-digit system level WUC to the item based upon the federal supply class of the item and the item's aircraft or engine application. WSCRS does not have WUC information for missiles.

2.4.4. Component and Subassembly Data. WSCRS cannot automatically relate components to their subassemblies, and subassemblies to their next higher assemblies.

Section B--Interfaces to External Systems

2.5. System Interfaces. The input/output requirements for interfaces between WSCRS and other data systems are managed through Interface Control Documents. ICDs are mandatory for all AFMC system interfaces; the ICDs document individual data system requirements for interface purposes, as agreed upon by the receiving and sending development activities. Information contained in all interface files reflects the end of fiscal year positions for the data values involved, and all data provided by the interfacing systems are unclassified. The annual processing cycle for WSCRS cannot run until all interface files are available. All system interfaces are described below by identifying each system interface by name, data system designator, and corresponding OPR, followed by input or output description.

2.5.1. Recoverable Consumption Item Requirements System (D041). OPR: HQ AFMC/LG.

- a. *"50" NSN-Application File.* This input interface file identifies a master or subgroup master stock number to all its aircraft and missile MDS, or propulsion system TMS applications. It gives the quantity of the stock number used on each application, and the percentage of each application using that stock number.
- b. *"01" NSN Descriptive Requirements Data File.* This input interface file provides the stock number nomenclature, unit price, program selection code, etc.
- c. *"04-11" NSN Program Usage File.* This input interface file provides the stock number base level and depot level condemnation quantities in the fiscal year.

2.5.2. Requirements Data Bank (D200). OPR: HQ AFMC/LG.

- a. *Past Program Data.* This input interface file provides the actual flying hours and inventory months for aircraft

and missile MDSs, and propulsion system TMSs in the fiscal year.

- b. *RDB Engine Table Data.* This input interface file identifies the propulsion system TMSs installed on a weapon system as of the end of the fiscal year. The data provides the quantity of the TMS used on each weapon system, the percent of each weapon system using the TMS, and the percent of time the TMS is operating in relation to the weapon system operating time.

- c. *RDB Actual-Standard MDS Reference File.* This input interface file identifies the aircraft or missile actual MDS to its standard MDS.

2.5.3. DMS, AFIF Cost Accounting Production Report (H036A). OPR: HQ AFMC/FM.

- a. *Depot Maintenance Completed Work 4 Quarter File.* This input interface file provides the depot repair costs for the fiscal year.

2.5.4. Master Item Identification Control System (D043). OPR: HQ AFMC/LG.

- a. *I&S NSN Cross-Reference File.* This input interface file identifies Interchangeable and Substitutable (I&S) stock numbers to their master stock number. This cross-reference file ensures that depot repair costs for an I&S NSN can be identified and reported to its corresponding master NSN.
- b. *Annual Unit Price Information.* This input interface file provides the stock number unit prices reported in the D043 system. The data are used as a cross check to identify questionable stock number unit prices reported in the D041 system.

2.5.5. USAF Program Aerospace Vehicle and Flying Hours (PA Volume I). OPR: SAF/XP.

- a. *Aircraft and Flying Hours By MDS*. This unclassified input interface file provides the execution fiscal year programmed flying hours and inventories for aircraft MDS.

2.5.6. Air Force Total Ownership Cost (D160). OPR: SAF/FM.

- a. *Weapon System Support Cost File*. WSCRS generates this output interface file for input to the D160 (AFTOC)

system. The file contains the latest fiscal year depot repair and condemnation costs, summarized by work breakdown structure, for each aircraft or missile on the WSCRS Summary Database Segment 1.

- b. *Actual-Standard MDS Cross Reference File*. WSCRS generates this output interface file for input to the D160 (AFTOC) system. D160 uses the file to convert actual MDSs to standard MDSs.

Section C--Internal WSCRS Files

2.5.7. WSCRS Master Files (H036C). OPR: HQ AFMC/FMP.

- a. *Standard-Actual MDS/TMS Cross Reference*. This WSCRS master file identifies aircraft and missile actual MDSs to standard MDSs, and propulsion system actual TMSs to standard TMSs. This information is used to identify the depot repair cost of an actual MDS or TMS to its standard MDS or TMS. WSCRS updates this file annually with information from the D200 Actual-Standard MDS Reference interface file, the H036A Completed Work 4-quarter interface file, and information provided by the WSCRS OPR.
- b. *NSN-MDS-WUC File*. This WSCRS master file identifies MDS/stock numbers to WUCs.
- c. *FSC-WUC Cross-Reference File*. This WSCRS master file associates a federal supply class (FSC) to a corresponding two-digit system level work unit code (WUC). The file is used in Detail Database record generation. If a five-digit WUC for a stock number cannot be found on the NSN-MDS-WUC master file, the FSC-WUC Cross Reference file is then used to assign a two-digit system level WUC to the stock-number. The FSC-WUC Cross Reference master file is updated annually based on information provided by WSCRS OPR.
- d. *WUC-WBS Group Code Table*. This WSCRS master file identifies the H036C relationships between the system level work unit codes and the work breakdown structure (WBS) of a weapon system. This file is updated annually with information provided by the WSCRS OPR.
- e. *Program Element Code (PEC) - Mission Design Series (MDS) Cross-Reference File*. This WSCRS master file identifies all MDSs related to a PEC. This file is updated annually based on information provided by HQ AFMC/LG.

2.5.8. WSCRS OPR Manual Entry Inputs.

- a. *Engine Module File*. This file identifies engine modules to their core engine. The information used to update this file is provided by AFMC/LG.
- b. *ICS/CLS Cost File*. This file inputs the latest fiscal year weapon system costs for the *AFMC-funded* Interim Contractor Support (ICS)-Depot Level, Interim Contractor Support-Base Level, and Contractor Logistics Support (CLS). These costs are provided by HQ AFMC/FMB. Any ICS and CLS costs funded by other MAJCOMs are not reported by WSCRS.
- c. *Escalation Rates*. This file provides the rates necessary to escalate costs to constant-year dollars on reports generated from either the WSCRS Detail Database or WSCRS Summary Database. Escalation rates used in the annual update process are provided by SAF/FMC.
- d. *Missile-TMS File*. This file identifies the engines used on a missile MDS. This information is provided by HQ AFMC/FMP.
- e. *PA Volume III*. Unclassified fiscal year programmed inventories for strategic missiles, air launched cruise missiles, ground launched cruise missiles, remotely piloted vehicles, and target drones are extracted from the classified PA Volume III USAF Program document. The unclassified inventory data are input to WSCRS by the OPR.
- f. *TAMP*. Unclassified fiscal year programmed inventories for air intercept missiles are extracted from the classified USAF Tactical Air Missile Program (TAMP) TAD Volume I document. The unclassified inventory data are input to WSCRS by the OPR.
- g. *TMP*. Unclassified fiscal year programmed inventories for air guided missiles are extracted from the classified USAF Theater Munitions Program (TMP) TAD Volume 2 document. The unclassified inventory data are input to WSCRS by the OPR.

Chapter 3

SYSTEM PRODUCTS

Section A--Reports Overview

3.1. Detail Database Products. All report products generated from the WSCRS Detail Databases are prefaced with the Detail Database Report Foreword. The Report Foreword identifies the weapon systems and the cost content specifically included or excluded on each report.

Table 3.1. Detail Database Reports List

Product Control Number/File Name	Report Name
Q-H036C-D01-IR-8IR	FYxx Detail Weapon System Cost Summary
Q-H036C-D02-IR-8IR	FYxx Condemnation Cost Ranking
Q-H036C-D03-IR-8IR	FYxx Component Depot Maintenance Cost Ranking
Q-H036C-D04-IR-8IR	FYxx Depot Maintenance Costs
DET.DWNNnD0.PRN	Download MDS Cost Reports
Q-H036C-E01-IR-8IR	FYxx Detail Engine Cost Summary
Q-H036C-E02-IR-8IR	FYxx Engine Condemnation Cost Ranking
Q-H036C-E03-IR-8IR	FYxx Engine Depot Maintenance Cost Ranking
Q-H036C-E04-IR-8IR	FYxx Engine Depot Maintenance Costs
DET.DWNNnE0.PRN	Download TMS Cost Report
FYxx Weapon System Commonality Report	
Q-H036C-250-IR-8IR	Part A: MDS Summary
Q-H036C-251-IR-8IR	Part B: Modified Fleet Summary
Q-H036C-252-IR-8IR	Part C: Fleet Summary
Q-H036C-253-IR-8IR	Part D: Mission Summary
Q-H036C-254-IR-8IR	Part E: Grand Total Summary
FYxx Recoverable Item Distribution Report	
Q-H036C-960-IR-8IR	Part A: MDS Summary
Q-H036C-961-IR-8IR	Part B: Modified Fleet Summary
Q-H036C-962-IR-8IR	Part C: Fleet Summary
Q-H036C-963-IR-8IR	Part D: Mission Summary
Q-H036C-964-IR-8IR	Part E: Grand Total Summary
Detail Database Extract	
DET.DDB.PRN	DDB Extract (in mainframe format)
DET.DDBPCnn.PRN	DDB Extract (in PC format)

3.2. Summary Database Products. All report products generated from the WSCRS Summary Databases are prefaced with the Summary Database Report Foreword. The Report Foreword identifies the weapon systems and the cost content specifically included or excluded on each report. All Summary Database report products have the main title "Depot Maintenance Weapon System Cost Data". The reports control symbol (RCS) for all WSCRS Summary Database products is RCS: SAF-FMC(A&AR)8202. Each report is subtitled by "Schedule Number" and "Part Number". The schedule number identifies the report format, and the part number identifies the level of cost aggregation within the report.

Table 3.2. Summary Database Reports List

Product Control Number/File Name	Report Name
Schedule 1: FYxx-FYyy Cost Factors in FYzz Dollars	
Q-H036C-S10-IR-8IR	Part A: MDS Summary
Q-H036C-S11-IR-8IR	Part B: Modified Fleet Summary

Table 3.2. (Continued) Summary Database Reports List

Product Control Number/File Name	Report Name
Q-H036C-S12-IR-8IR	Part C: Fleet Summary
Q-H036C-S13-IR-8IR	Part D: Mission Summary
SUM.DWNS1.PRN	Download S-10 Series MDS Cost Report
Schedule 2: FYxx-FYyy Cost Factors in Then Dollars	
Q-H036C-S20-IR-8IR	Part A: MDS Summary
Q-H036C-S21-IR-8IR	Part B: Modified Fleet Summary
Q-H036C-S22-IR-8IR	Part C: Fleet Summary
Q-H036C-S23-IR-8IR	Part D: Mission Summary
SUM.DWNS2.PRN	Download S-20 Series MDS Cost Report
Schedule 3: FYxx Cost Summary in FYxx Dollars	
Q-H036C-S30-IR-8IR	Part A: MDS Summary
Q-H036C-S31-IR-8IR	Part B: Modified Fleet Summary
Q-H036C-S32-IR-8IR	Part C: Fleet Summary
Q-H036C-S33-IR-8IR	Part D: Mission Summary
Q-H036C-S34-IR-8IR	Part E: Grand Total Summary
SUM.DWNS3.PRN	Download S-30 Series MDS Cost Report
Schedule 4: FYxx Cost Summary in FYzz Dollars	
Q-H036C-S40-IR-8IR	Part A: MDS Summary
Q-H036C-S41-IR-8IR	Part B: Modified Fleet Summary
Q-H036C-S42-IR-8IR	Part C: Fleet Summary
Q-H036C-S43-IR-8IR	Part D: Mission Summary
Q-H036C-S44-IR-8IR	Part E: Grand Total Summary
SUM.DWNS4.PRN	Download S-40 Series MDS Cost Report
Schedule 5: FYxx-FYyy Engine Cost Factors in FYzz Dollars	
Q-H036C-S50-IR-8IR	Part A: TMS (Individual) Summary
Q-H036C-S51-IR-8IR	Part B: TMS (Grouped) Summary
Q-H036C-S52-IR-8IR	Part C: TMS (Family) Summary
SUM.DWNS5.PRN	Download S-50 Series TMS Cost Report
Schedule 6: FYxx-FYyy Engine Cost Factors in Then Dollars	
Q-H036C-S60-IR-8IR	Part A: TMS (Individual) Summary
Q-H036C-S61-IR-8IR	Part B: TMS (Grouped) Summary
Q-H036C-S62-IR-8IR	Part C: TMS (Family) Summary
SUM.DWNS6.PRN	Download S-60 Series TMS Cost Report
Schedule 7: FYxx Engine Cost Summary in FYxx Dollars	
Q-H036C-S70-IR-8IR	Part A: TMS (Individual) Summary
Q-H036C-S71-IR-8IR	Part B: TMS (Grouped) Summary
Q-H036C-S72-IR-8IR	Part C: TMS (Family) Summary
SUM.DWNS7.PRN	Download S-70 Series TMS Cost Report
Schedule 8: FYxx Engine Cost Summary in FYzz Dollars	
Q-H036C-S80-IR-8IR	Part A: TMS (Individual) Summary
Q-H036C-S81-IR-8IR	Part B: TMS (Grouped) Summary
Q-H036C-S82-IR-8IR	Part C: TMS (Family) Summary
SUM.DWNS8.PRN	Download S-80 Series TMS Cost Report
Summary Database Interrogation Extracts	
SUM.SEG1.PRN	SDB Segment 1 Extract (in mainframe format)
SUM.SEG1PC.PRN	SDB Segment 1 Extract (in PC format)
SUM.SEG2.PRN	SDB Segment 2 Extract (in mainframe format)
SUM.SEG2PC.PRN	SDB Segment 2 Extract (in PC format)
SUM.DMCF.PRN	Depot Maintenance Cost Factors Data
SUM.EXCH.PRN	Exchangeables Repair Cost Data

3.3. Weapon System Program Database Products. Report products generated from the Weapon System Program Database are shown below:

Table 3.3. Weapon System Program Database Reports List

Product Control Number/File Name	Report Name
Q-H036C-A51-PA-8PA	Standard-Actual MDS PA Data
Q-H036C-A91-PA-8PA	Weapons System Program Data
Q-H036C-B91-PA-8PA	Engine Program Data

Section B--Data Limitations, Constraints, and Contents

3.5. Data Limitations and Constraints:

- a. All aircraft and missile weapon systems are reported by standard MDS, not actual MDS. Not all weapon systems are reported by WSCRS; generally, all aircraft with reciprocating engines are excluded.
- b. Only USAF weapon system costs are reported. Interservice work performed by the Air Force for Army, Navy, Marine, and Coast Guard equipment is excluded. Work performed on weapon systems owned by foreign governments is also excluded.
- c. WSCRS reports worldwide USAF weapon system depot repair costs. The costs cannot be identified specifically to Direct Air Force, Air National Guard, Air Force Reserve, MAJCOMs, etc.
- d. Exchangeable items are identified only to master stock number or to subgroup master stock number. All repair costs for Interchangeable and Substitutable (I&S) stock numbers are reported to their master or subgroup master stock number. The I&S stock number identity is not retained in WSCRS.
- e. Costs are reported to the lowest indenture level. Assembly, subassembly, and component item cost details are included in WSCRS; however, the system does not track an item to its next higher subassembly, nor a subassembly to its next higher assembly.
- f. Support equipment costs reported in WSCRS represent only the repair of base level support equipment performed by a depot, and do not include the repair of the depot's own support equipment. The repair costs for the depot's own support equipment is reported in operations overhead cost.
- g. Depot repair costs are reported only for the work completed in the fiscal year. When an airbase sends reparable items to a depot for repair action, the depot may batch those items until quantities become sufficient for economical repair. Thus items sent to a depot in one fiscal year may not show repair costs until the following fiscal year. In WSCRS, reparable item costs are reported at the point

3.4. NSN Descriptive Requirements Data Report. The NSN Descriptive Requirements Data Report (PCN: Q-H036C-391-PR-8PR) *FYxx NSN Descriptive Requirements Data* is only available on microfiche, and displays the stock number logistics information obtained from various files.

of actual repair, not at the point of exchange or at the time NRTS.

- h. Repair costs for items common to two or more MDSs cannot be directly assigned to the MDSs. Common item costs are allocated to the applicable MDSs based on flying hour or inventory ratios. The allocation ratios developed do not take into account the peculiar effect that different missions of aircraft, climate and other environmental factors, number of sorties, etc., may have in driving depot costs.
- i. WSCRS does not have complete NSN-MDS-WUC cross-reference information available. When five-digit WUCs are not available for NSN exchangeable items, WSCRS assigns a system level WUC based on the federal supply class of the item and the item's aircraft or engine application. WSCRS does not have WUC information for missiles.
- j. Class IV and Class V modification installation costs cannot always be separately identified. A modification installation is often scheduled to be done in conjunction with a PDM or overhaul because it is more cost effective. When this occurs, some modification installation costs may be reported as part of the PDM or overhaul costs. WSCRS is not able to track modification installation costs by modification number.
- k. The WSCRS Detail Data Base contains NSN information for each reparable item used on each weapon system MDS even though there may not have been costs reported for the reparable item in the fiscal year.
- l. Interim Contractor Support (ICS) and Contractor Logistics Support (CLS) costs may contain more than depot level costs, e.g., base level costs. These costs in WSCRS represent the final *AFMC-funded* obligation, close-out figures for the fiscal year.
- m. The cost factors developed in WSCRS are appropriate for use in estimating USAF owned and operated weapon system costs. The depot maintenance factors include the funded costs reimbursable to the Air Force Depot Maintenance Industrial Fund. The factors would have to be adjusted if used to estimate non-USAF or foreign-owned aircraft costs.

n. Condemnation costs are based on the last buy price of the item. WSCRS cannot escalate the NSN unit price to current-year dollars since the fiscal year of the last buy is not available.

3.6. Data Contents:

- a. All data in WSCRS is unclassified.
- b. All costs reported in WSCRS, with the exception of ICS and CLS costs, are expenditure dollars; they are not budgeted dollars or obligated dollars. The *AFMC-funded* ICS and CLS costs reported in WSCRS are obligated dollars.
- c. Missile costs are available for FY78-FY92 only. Missile costs are no longer reported because data sources were only available in classified systems.
- d. *AFMC-funded* CLS costs are available for FY75-FY89 only. Effective in FY90, MAJCOMs did their own funding of CLS. Since AFMC no longer funds CLS, WSCRS no longer reports CLS costs beginning with the FY90 data.
- e. *AFMC-funded* ICS costs are available for FY75-FY92 only. Effective in FY93, MAJCOMs did their own funding of ICS. Since AFMC no longer funds ICS, WSCRS no longer reports ICS costs beginning with the FY93 data.
- f. All weapon system program data and cost data represent information for one fiscal year.
- g. Labor costs include the actual pay of the laborer plus allowances for personnel benefits (retirement, insurance, etc.) and personnel leave (annual, sick, etc.).
- h. Indirect (overhead) labor includes the labor for supervision, clerical and administrative, staff mission, standby, training, and official union activities.
- i. Indirect (overhead) material includes shop operating and housekeeping material, office operating material and equipment, non flying petroleum, oil, and lubricants (POL) used in the depot repair and overhaul process, POL consumed by maintenance vehicles and ground power equipment, expense tools and equipment, and expense material that cannot be identified to a specific product (for example, nuts, bolts, washers, paint).
- j. Operations overhead costs include all indirect labor, indirect material, and services, and the costs of management that can be reasonably allocated or economically identified to a Resource Control Center (RCC). They include the maintenance functions of production division administration, production branches above RCC level, operations branch, planning and engineering branch, scheduling branch, inspection branch, and the quality assurance branch. Also included in operations overhead is the depot repair of its own support equipment.
- k. General and Administrative (G&A) overhead costs include all indirect labor, indirect material, services, and the costs of management and support organizational units

that cannot be reasonably allocated or economically identified to an RCC. They include the maintenance functions of the resources management division, quality and industrial systems division, maintenance evaluation office, administrative services office and directorate of administration. They include support costs from civilian personnel, data automation, cost accounting, pay and travel, mail distribution, security, fire protection, civilian personnel health services, etc.

- l. Condemnation costs on all reports include both base condemnations and depot condemnations.
- m. The costs of base level support equipment repair performed in a depot facility are excluded on all summary reports. Depot level support equipment repair costs are embedded in operations overhead costs.
- n. Class IV Modification Installation costs include all costs identified with work performance category of H.
- o. Class V Modification Installation costs include all costs identified with work performance category of C.
- p. Interim Contractor Support (ICS)-Depot Level costs include all costs identified with work performance category of 1. ICS-Base Level costs include all costs identified with work performance category of 2.
- q. Contractor Logistics Support (CLS) costs include all costs identified with work performance category of W.
- r. Baseline costs include all costs identified with work performance categories of A-overhaul, B-progressive maintenance, D-activation, E-inactivation, F-renovation, G-analytic rework, I-repair, J-inspection and test, K-manufacture, L-reclamation, M-storage, and N-technical assistance.
- s. For WSCRS processing and cost reporting, the depot repair costs include the costs funded by the Depot Maintenance Industrial Fund (DMIF), military labor costs, and government furnished expense material. Unfunded direct material costs for investment items, exchange items, modification kits, and expense items, unfunded operations overhead costs, unfunded other direct costs, unfunded G&A overhead costs, unfunded organic maintenance support costs, government furnished material costs for investment items, exchange items, and modification kits, and unfunded government furnished services are not included in the WSCRS depot repair costs.
- t. Depot costs include both organic depot and contract depot costs.
- u. WSCRS processes NSN exchangeable items associated with program element code (PEC) applications. WSCRS converts PECs reported in the D041 system to their corresponding aircraft and missile MDS applications.
- v. Maintenance support costs (identified by Work Performance Categories, P, Q, R, S, and T) are excluded.

Section C--Detail Database Report Content

3.7. Detail Database Reports. The following paragraphs illustrate the layout and meaning of the Detail Database report products identified at the beginning of this chapter. For a more detailed discussion of the cost computations, see Chapter 4.

3.7.1. Detail Database Report Foreword. The purpose of the report foreword is to identify the specific weapon system cost data extracted from the Detail Database, and documents the specific cost content of any Detail Database report generated from that extracted data. The Detail Database Report Foreword for aircraft and missile reports consists of two or three pages and is inserted at the beginning of any aircraft or missile report generated from the WSCRS Detail Database. The Detail Database Report Foreword for engine reports contains an additional page and is inserted at the beginning of any engine report generated from the WSCRS Detail Database. All Report Foreword pages are discussed in the following four figures. In subsequent illustrations of other DDB report products, the Report Foreword is not specifically identified.

3.7.1.1. Report Foreword Page 1: Reference and Contact Information. Page 1 of the Detail Database Report Foreword identifies the H036C (WSCRS) Users Manual, the fiscal year of the cost data in a report, the fiscal year dollars in which

the cost data are displayed in a report, and provides the interrogation parameters list which must be referenced should a question arise concerning the content of a report.

3.7.1.2. Report Foreword Page 2: Content by Weapon System. Page 2 of the Detail Database Report Foreword is a table that identifies the specific aircraft or missile MDSs and/or propulsion system TMSs for which data were extracted from the Detail Database. This page also identifies the cost types that were specifically included or excluded in the interrogation extract. The cost content is identified and listed by Detail Database record types, national stock numbers, federal supply classes, work breakdown structures, work performance categories, work unit codes, and repair sites.

3.7.1.3. Report Foreword Application Data Page. This page of the Detail Database Report Foreword appears only in engine reports. It lists the MDSs that use the engine, as well as the installed inventory and flying hours of the engine (in both absolute and relative percentage) on each MDS.

3.7.1.4. Report Foreword Escalation Rate Page. This page of the Detail Database Report Foreword lists the escalation rates that were used to escalate cost data to the constant-year dollars displayed in a report. This page is not generated for a then-year dollar report.

Figure 3.1. Detail Database Report Foreword
Page 1: Reference and Contact Information

FMP a	b052H STD-MDS- FLYING HRS- INV MTHS- c1138	c052H 31898 d1138	f WEAPON SYSTEM COST RETRIEVAL SYSTEM FY91 DETAIL WEAPON SYSTEM COST SUMMARY g FY91 COSTS IN FY91 DOLLARS	12/17/99 h	iQ-H036C-D01-IR-8IR j3511911	PAGE k1
WEAPON SYSTEM COST RETRIEVAL SYSTEM (WSCRS)						
REPORT FOREWORD						
1. USERS MANUAL.			3. INTERROGATION PARAMETERS.			
REFERENCE AFMCMAN 65-606, H036C (WSCRS) USERS			THE FOLLOWING PARAMETER LIST IS FOR REFERENCE INFOR-			
MANUAL, TO INTERPRET, UNDERSTAND, AND PROPERLY			MATION ONLY. IF A QUESTION ARISES CONCERNING THE			
USE THE HISTORIC WEAPON SYSTEM COSTS CONTAINED IN			CONTENT OF THIS REPORT, THE FOLLOWING CONTROL PAR-			
THIS REPORT. THE H036C (WSCRS) SOURCES OF DATA,			AMETERS MAY NEED TO BE REFERENCED:			
COMPUTATION METHODOLOGIES, OUTPUT PRODUCTS, AND			lD.91.03.DX.CR.N.AR.....91.NO....Y.			
THE DEFINITIONS, LIMITATIONS, AND CONSTRAINTS OF						
THE COST DATA ARE DESCRIBED. ANY SUGGESTIONS YOU						
MAY HAVE FOR WSCRS SYSTEM ENHANCEMENTS, PRODUCT			4. THE TABLE ON THE FOLLOWING PAGE IDENTIFIES THE			
CHANGES, OR USERS MANUAL IMPROVEMENTS SHOULD BE			CONTENTS OF THIS REPORT BY SELECTED WEAPON SYSTEM			
ADDRESSED TO:			(MDS), ENGINE (TMS), MASTER OR SUBGROUP MASTER			
ATTN: H036C (WSCRS) OPR			NATIONAL STOCK NUMBER (NSN), WORK BREAKDOWN STRUC-			
HQ AFMC/FMP			TURE (WBS), WORK PERFORMANCE CATEGORY (WPC), WORK			
4375 CHIDLAW RD, RM N2333			UNIT CODE (WUC), AND SITE CODE.			
WRIGHT PATTERSON AFB OH 45433-5006						
2. FISCAL YEAR CONTENT.						
THIS REPORT CONTAINS COST DATA EXTRACTED FROM THE						
H036C (WSCRS) DETAIL DATA BASE FOR FISCAL YEAR						
m1991 DISPLAYED IN FY91 DOLLARS.						

a. Office of Primary Responsibility (OPR). The office symbol of the OPR for H036C (WSCRS) at Air Force Material Command (HQ AFMC/FMP).

b. Reserved. This field is a control code for OPR use.

c. Standard Mission Design Series (MDS). The MDS nomenclature designation for both aircraft and missile weapon systems. It indicates the prime intended mission, the sequence number of each design, and the series letter indicating significant changes to the logistics support. "Standard" indicates an MDS to which one or more actual MDSs are reported.

d. Flying Hours. The actual flying hours for an aircraft MDS in the fiscal year. This field does not apply for missile MDSs (this field is blank on missile reports).

e. Inventory Months. The fiscal year inventory months for the aircraft or missile MDS.

f. Report Title. Identifies the title of the product.

g. Fiscal Year Content/Cost Escalation. Indicates cost escalation by stating fiscal year of data and fiscal year of cost escalation. Cost escalation is also reported in the "escalation rate" page of the foreword.

h. Report Date. Date report was generated.

i. Product Control Number (PCN). PCN of the output product. Uniquely identifies the product.

j. Report Timestamp. Day and time the report product was generated. Days appear in positions 1-3 with values from 001-366, hours in positions 4-5 with values 00-23, and minutes are in positions 6-7 with values 00-59.

k. Page Number. Page numbering in WSCRS reports is by section, rather than enumerating the first to last page of an entire product.

l. Interrogation Parameters. The interrogation parameters used to generate the report (e.g., subject, content, product format, etc.). Primarily used by OPR.

Figure 3.2. Detail Database Report Foreword
Page 2: Content by Weapon System

FMP	B052H STD-MDS- FLYING HRS- INV MTHS-	B052H 31898 1138	WEAPON SYSTEM COST RETRIEVAL SYSTEM FY91 DETAIL WEAPON SYSTEM COST SUMMARY FY91 COSTS IN FY91 DOLLARS				12/17/99	Q-H036C-D01-IR-8IR 3511911	PAGE	2
WEAPON SYSTEM COST RETRIEVAL SYSTEM (WSCRS)										
REPORT FOREWORD										
TABLE 1. REPORT CONTENTS.										
a MDS INCLUDED *****	b TMS INCLUDED *****	c RCD TYPE/NSN INCLUDED *****	d WORK BREAKDWN STRUCT W B S *****	e WORK PERFORMANCE CAT W P C *****	f WUC INCLUDED *****	g REPAIR SITE SITE IN/EX *****				
B052H	ALL TMS	RCD TYPE 1 IN	AF ACFT OVHL IN	A OVERHAUL IN	ALL WUC	OCALC IN				
		RCD TYPE 2 IN	EO ENG OVHL IN	B PROG MAINT IN		OOALC IN				
		RCD TYPE 3 IN	EA ENG ACC IN	C CONV(CL V) EX		SAALC IN				
			AA ACFT ACC IN	D ACTIVATION IN		SMALC IN				
		RSD NSN NA	VI AV-INST IN	E INACTIVATN IN		WRALC IN				
		RSD EXEMPT NA	VC AV-COMM IN	F RENOVATION IN		WPAFB IN				
			VN AV-NAV IN	G ANAL REWRK IN		AGMC IN				
		ALL NSN	AR ARM ACC IN	H MOD(CL IV) EX		KEMBLE IN				
			SU SUPT EQUIP IN	I REPAIR IN		KADENA IN				
				J INSP/TEST IN						
			MO MSL OVHL EX	K MANUFACTURE IN						
			MF MSL FRAME EX	L RECLAMATON IN						
			PS PROP SYS EX	M STORAGE IN						
			MA MSL ACC EX	N TECH ASST IN						
			SL SUP/LAUNH EX	T OTHER WORK IN						
			GS GUID SYS EX	U SOFTWARE SPT IN						
			SC SURF COMM EX	V CALIBRATION IN						
			PL PAYLD SYS EX	W CLS IN						
				Y SCHED MAINT IN						
				1 DEPOT LVL ICS IN						
				2 BASE LVL ICS IN						

a. MDS Included. Indicates which aircraft and missiles are included in the database extract. In an engine report foreword, this column always contains "ALL MDS".

b. TMS Included. Indicates which engines, engine modules, engine gearboxes, and auxiliary power units are included in the database extract. In an aircraft or missile report, if any TMSs are listed, the MDS extract is limited to costs for only those TMSs listed; if the column lists "ALL TMS", the MDS extract is not limited to engine cost. In an engine report, only engine and auxiliary power unit TMSs are applicable since the extract process automatically includes any module or gearbox costs for an included engine.

c. Record Type and NSN Included. Lists each type of cost record included or excluded in the database extract. Record Types 1, 2, and 3 refer to NSN, FSC, and On-Equipment Overhaul costs, respectively. The two RSD lines do not apply to FY75-FY93 data. If any NSN or FSC is listed, only the costs associated with a listed value are included in the database extract.

d. Work Breakdown Structure (WBS). Lists all repair WBSs and indicates if costs from these WBSs are specifically included in or excluded from the database extract.

e. Work Performance Categories (WPC). Lists all types of maintenance work performed and indicates if costs from these categories are included in or excluded from the database extract. Condemnation costs are not associated with a WPC, and thus are not affected by this content selector.

f. Work Unit Codes Included. The work unit code consists of two characters, and is used to identify the sub-system on which maintenance was accomplished. If any two-digit system-level WUCs are listed, then only costs associated with the listed values are included in the database extract.

g. Repair Sites Included. Lists AFMC assigned installations that are engaged in performing depot level work on weapon systems.

Figure 3.3. Detail Database Report Foreword
Page 3: Application Data Page (Engine Report Foreword only)

FMP		TF0033102	WEAPON SYSTEM COST RETRIEVAL SYSTEM			12/17/99	Q-H036C-E01-IR-8IR		PAGE	3
ENGINE -		TF0033102	FY91 DETAIL ENGINE COST SUMMARY							
ENG FHRS-		298116	FY91 COSTS IN FY91 DOLLARS				3511917			
WEAPON SYSTEM COST RETRIEVAL SYSTEM (WSCR S)										
----- ENGINE MDS-APPLICATION DATA -----										
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)			
ENGINE	ENG TYPE	MDS	QTY ENG ON MDS	INSTALLED ENGINES ON MDS	% INSTALLED ENGINES ON MDS	ENGINE FHRS ON MDS	% ENGINE FHRS ON MDS			
TF0033102	TMS	C135E	4	12	1.6	2844	1.0			
		EC135E	4	16	2.2	4056	1.4			
		EC135H	4	12	1.6	4720	1.6			
		EC135K	4	8	1.1	6204	2.1			
		EC135N	4	4	0.5	1376	0.5			
		EC135P	4	16	2.2	6248	2.1			
		EC135Y	4	4	0.5	1068	0.4			
		KC135D	4	16	2.2	5220	1.8			
		KC135E	4	652	87.6	264476	88.7			
		NKC135E	4	4	0.5	1904	0.6			
TF0033102		TOTALS	744	100.0	298116	100.0				

a. Engine. Identifies the individual engine included in this cost summary report.

b. Eng Type. “TMS” (for engine) or “APU” (auxiliary power unit).

c. MDS. Identifies the aircraft or missile MDS(s) that had this specific engine installed in the fiscal year.

d. Qty Eng on MDS. Number of engines per aircraft or missile.

e. Installed Engines on MDS. Summed number of installed engines on the MDS inventory in the fiscal year.

f. % Installed Engines on MDS. Percentage of the total installed engine inventory used on the aircraft or missile MDS in the fiscal year.

g. Engine FHRS on MDS. Number of engine flying hours on the aircraft MDS in the fiscal year. If the engine is installed on a missile, this value is zero.

h. % Eng FHRS on MDS. Percentage of the total engine flying hours attributable to the aircraft MDS in this fiscal year. If the engine is installed on a missile, this value is zero.

**Figure 3.4. Detail Database Report Foreword
Escalation Rates Page (optional)**

FMP	B001B STD-MDS- FLYING HRS- INV MTHS-	B001B 22919 1150	WEAPON SYSTEM COST RETRIEVAL SYSTEM FY91 DETAIL WEAPON SYSTEM COST SUMMARY FY91 COSTS IN FY97 DOLLARS				01/16/98	Q-H036C-D01-IR-8IR 0161325	PAGE	3
WEAPON SYSTEM COST RETRIEVAL SYSTEM (WSCRS)										
a BASE YEAR FY97 ESCALATION RATES										
THE FOLLOWING RATES WERE USED TO ESCALATE COSTS TO CONSTANT FY97 DOLLARS:										
b	c	d	e	f	g	h	i			
FISCAL YEAR	AS OF DATE	CIVILIAN PAY FACTOR	MILITARY PAY FACTOR	MATERIAL AIRFRAME FACTOR	MATERIAL ENGINE FACTOR	MATERIAL AVIONICS FACTOR	OPERATION MAINT FACTOR			
75	01/09/97	.337	.348	.356	.300	.502	.351			
76	01/09/97	.365	.367	.386	.326	.503	.375			
77	01/09/97	.398	.387	.424	.358	.516	.400			
78	01/09/97	.429	.414	.457	.383	.529	.432			
79	01/09/97	.455	.440	.501	.432	.555	.472			
80	01/09/97	.486	.472	.558	.510	.609	.518			
81	01/09/97	.528	.551	.621	.588	.655	.579			
82	01/09/97	.558	.621	.668	.604	.695	.632			
83	01/09/97	.584	.645	.702	.597	.735	.664			
84	01/09/97	.602	.665	.726	.619	.769	.688			
85	01/09/97	.636	.690	.742	.632	.792	.712			
86	01/09/97	.642	.716	.757	.618	.798	.732			
87	01/09/97	.677	.733	.772	.625	.812	.752			
88	01/09/97	.739	.749	.804	.740	.832	.774			
89	01/09/97	.764	.776	.836	.757	.845	.807			
90	01/09/97	.793	.805	.852	.821	.882	.840			
91	01/09/97	.824	.837	.886	.861	.910	.875			
92	01/09/97	.858	.871	.910	.911	.909	.900			
93	01/09/97	.892	.903	.925	.925	.924	.924			
94	01/09/97	.921	.926	.944	.944	.943	.943			
95	01/09/97	.949	.950	.961	.960	.960	.960			
96	01/09/97	.972	.972	.980	.980	.980	.980			
97	01/09/97	1.000	1.000	1.000	1.000	1.000	1.000			
98	01/09/97	1.029	1.028	1.021	1.021	1.021	1.021			
99	01/09/97	1.051	1.058	1.043	1.043	1.043	1.043			
00	01/09/97	1.073	1.089	1.065	1.065	1.064	1.064			
01	01/09/97	1.095	1.121	1.088	1.088	1.087	1.087			
02	01/09/97	1.116	1.154	1.111	1.111	1.111	1.110			
03	01/09/97	1.139	1.189	1.135	1.135	1.134	1.134			
04	01/09/97	1.162	1.224	1.163	1.163	1.162	1.162			
REFERENCE THE H036C (WSCRS) USERS MANUAL, AFMCMAN 65-606, CHAPTER 4, FOR A DESCRIPTION OF HOW THESE RATES ARE APPLIED.										

a. Base Year. Base fiscal year of the escalation rates.

b. Fiscal Year. Fiscal years of escalation rates, as shown in the table.

c. As of Date. SAF/FMC issue date of escalation rates.

d. Civilian Pay Factor. The civilian pay rate is obtained from AFI 65-503, table A5-1, General Service and Wage Board Pay (3400). The civilian pay rate is used to escalate direct civilian labor cost, other direct civilian labor cost, funded and unfunded operations overhead costs.

e. Military Pay Factor. The military pay rate is obtained from AFI 65-503, table A5-1, Military Compensation Total (3500). The military pay rate is used to escalate direct military labor costs and other direct military labor costs.

f. Material Airframe Factor. The airframe material rate is obtained from AFI 65-503, table A5-3, Airframe Index. The airframe material rate is used to escalate material costs in WBS groups for aircraft overhaul (AF), aircraft accessories (AA), armament accessories (AR), missile overhaul (MO), missile frame (MF), missile accessories (MA), support and launch system (SL), payload system (PL), and support equipment (SU).

g. Material Engine Factor. The engine material rate is obtained from AFI 65-503, table A5-3, Engine Index. The engine material rate is used to escalate material costs in WBS groups for engine overhaul (EO), engine accessories (EA), and propulsion system (PS).

h. Material Avionics Factor. The avionics material rate is obtained from AFI 65-503, table A5-3, Avionics Index. The avionics material rate is used to escalate material costs in WBS groups for avionics instrumentation (VI), avionics communication (VC), avionics navigation (VN), guidance system (GS), and surface communication and control (SC).

i. Operation Maintenance Factor. The O&M non-pay rate is obtained from AFI 65-503, table A5-1, Operations and Maintenance Non-Pay, Non-POL (3400). The O&M non-pay rate is used to escalate funded and unfunded other direct costs, funded and unfunded general and administrative overhead costs, contract and interservice costs, funded and unfunded government furnished services, funded and unfunded organic maintenance support costs, Interim Contractor Support costs, and Contractor Logistics Support costs.

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3.7.2. Aircraft/Missile Detail Weapon System Cost Report (PCN: Q-H036C-D01-IR-8IR). *Weapon System Cost Retrieval System, FYxx Detail Weapon System Cost Summary, FYxx Costs in FYnn Dollars.* The intent of this report is to provide weapon system depot maintenance and condemnation cost information, on an item-by-item basis, for each reparable item used on an MDS for a fiscal year. A depot maintenance repair rate, depot maintenance cost rate, condemnation rate, and condemnation cost rate are calculated for each item. This report has three parts, described below. Costs in the report can be displayed in either then-year dollars or constant-year dollars. This product's Report Foreword identifies the weapon system costs that are specifically included or excluded in the report. This report shows the depot maintenance cost data displayed as "cost per aircraft flying hour (or per missile)". Refer to the Q-H036C-D04-IR-8IR report to see these same depot maintenance cost data displayed as labor costs, material costs, overhead costs, and man-hours.

3.7.2.1. Q-H036C-D01-IR-8IR Part 1: WUC-Component Cost Summary. This part of the report displays the *off-equipment* depot repair and condemnation costs in two-digit system-level WUC/NSN sequence for each reparable item used on the MDS. Multiple report lines may be displayed for the same item, with each report line displaying costs by different work performance category. Multiple report lines for the same item appear together on the report in ascending WPC sequence. When multiple report lines are displayed, an NSN total line is also displayed showing the NSN total condemnation cost rate and NSN total depot repair cost rate for the aircraft or missile MDS. The weapon system costs are also subtotaled by two-digit system level WUC. Reference Chapter 4 for a complete description of all computations. Some computations applicable to this report are shown below for quick reference.

a. Stock Number Condemnation Rate for Aircraft:

$$\text{Condemnation Rate} / 1000 \text{ MDSFH} = \frac{(\text{Base Cond} + \text{Depot Cond})(\text{NSN Factor}_{\text{th}})}{\text{MDSFH}} \times 1000$$

where

Base Cond = quantity of the stock number condemned at base level

Depot Cond = quantity of the stock number condemned at depot level

$$\text{NSN Factor}_{\text{th}} = \frac{\text{Total operating hours for NSN on this MDS-application}}{\text{Total operating hours for NSN across all applications}}$$

MDSFH = MDS flying hours in the fiscal year

b. Stock Number Condemnation Rate for Missile:

$$\text{Condemnation Rate} / \text{Missile} = \frac{(\text{Base Cond} + \text{Depot Cond})(\text{NSN Factor}_{\text{inv}})}{\frac{\text{MDSINV}}{12}}$$

where

Base Cond = quantity of the stock number condemned at base level

Depot Cond = quantity of the stock number condemned at depot level

$$\text{NSN Factor}_{\text{inv}} = \frac{\text{Total inventory months for NSN on this MDS-application}}{\text{Total inventory months for NSN across all applications}}$$

MDSINV = MDS inventory months in the fiscal year

c. Stock Number Condemnation Cost Rate for Aircraft:

$$\text{\$ Condemnation} / \text{MDSFH} = \frac{(\text{Condemnation Rate} / 1000 \text{ MDSFH})(\text{NSN Unit Price})}{1000}$$

d. Stock Number Condemnation Cost Rate per Missile:

$$\text{\$ Condemnation} / \text{Missile} = (\text{Condemnation Rate} / \text{Missile})(\text{NSN Unit Price})$$

e. Stock Number Repair Rate for Aircraft:

$$\begin{aligned} \text{Repair Rate} / 1000 \text{ MDSFH} &= \frac{(\text{PQC} / \text{Item} / \text{WPC})(\text{Factor})}{\text{MDSFH}} \times 1000 \\ &= \text{quantity of the item repaired} / \text{WPC} / 1000 \text{ MDSFH} \end{aligned}$$

where Factor value varies by NSN item or FSC item:

NSN: Factor = NSN Factor_{th}

FSC: Factor = FSC FACTOR

f. Stock Number Repair Rate for Missiles:

$$\begin{aligned} \text{Repair Rate} / \text{Missile} &= \frac{(\text{PQC} / \text{Item} / \text{WPC})(\text{Factor})}{\frac{\text{MDSINV}}{12}} \\ &= \text{quantity of item repaired} / \text{WPC} / \text{MDS} \end{aligned}$$

where Factor value varies by NSN item or FSC item:

NSN: Factor = NSN Factor_{inv}

FSC: Factor = FSC FACTOR

g. Stock Number Average Cost to Repair:

$$\text{Average Cost to Repair} = \frac{\text{Total repair cost} / \text{Item} / \text{WPC}}{\text{PQC} / \text{Item} / \text{WPC}}$$

h. Stock Number Repair Cost Rate for Aircraft:

$$\begin{aligned} \text{\$ Repair} / \text{MDSFH} &= \frac{(\text{Total repair cost} / \text{Item} / \text{WPC})(\text{Factor})}{\text{MDSFH}} \\ &= \text{repair cost} / \text{Item} / \text{WPC} / \text{MDSFH} \end{aligned}$$

where Factor value varies by NSN item or FSC item:

NSN: Factor = NSN Factor_{th}

FSC: Factor = FSC FACTOR

i. Stock Number Repair Cost Rate for Missiles:

$$\begin{aligned} \text{\$ Repair} / \text{Missile} &= \frac{(\text{Total repair cost} / \text{Item} / \text{WPC})(\text{Factor})}{\frac{\text{MDSINV}}{12}} \\ &= \text{repair cost} / \text{Item} / \text{WPC} / \text{Missile} \end{aligned}$$

where Factor value varies by NSN item or FSC item:

NSN: Factor = NSN Factor_{inv}

FSC: Factor = FSC FACTOR

Figure 3.5. Aircraft/Missile Detail Weapon System Cost Report
Part 1: WUC-Component Cost Summary

FMP	B052H STD-MDS- FLYING HRS- INV MTHS-	B052H 31898 1138	WEAPON SYSTEM COST RETRIEVAL SYSTEM FY91 DETAIL WEAPON SYSTEM COST SUMMARY FY91 COSTS IN FY91 DOLLARS PART 1: WUC-COMPONENT COST SUMMARY										12/17/99	Q-H036C-D01-IR-8IR	PAGE	1
3511911																
MASTER STOCK NO (NSN)	NSN NOMENCLATURE	SWUC- WBS- COMM	NSN APPLICATION	NSN QPA	%	NSN APPL	NSN LAST BUY UNIT PRICE	# NSN COND/ 1000 FH	NSN COND \$/FH	# NSN REPAIRED /1000 FH	NSN AVG \$/REPAIR	NSN D/M \$/FH	WPC			
1560		11 5					\$.00		\$.00			\$5.42				
1560		11AA5	B052H	0	0		\$.00	0.000	\$.00	.334	\$1063.98	\$.35	A			
1560		11AA5	B052H	0	0		\$.00	0.000	\$.00	.291	\$154.70	\$.04	G			
1560		11AA5	B052H	0	0		\$.00	0.000	\$.00	8.947	\$72.87	\$.65	I			
1560		11AA5	B052H	0	0		\$.00	0.000	\$.00	27.789	\$3.32	\$.09	J			
1560		11AA5	B052H	0	0		\$.00	0.000	\$.00	20.543	\$203.25	\$4.18	K			
1560		11AA5	B052H	0	0		\$.00	0.000	\$.00	1.005	\$112.62	\$.11	N			
1560000051836FG	FAIRING AY	11AA3	B052H	1	100		\$3047.00	0.000	\$.00	.000	\$.00	\$.00				
1560000051837FG	FAIRING AY	11AA3	B052H	1	100		\$3816.00	0.000	\$.00	.000	\$.00	\$.00				
1560000482041FG	RAADOMME	11AA3	B052H	1	20		\$129965.00	0.009	\$1.20	.203	\$12521.05	\$2.54	A			
1560000922977FG	SNUBBER AY	11AA3	B052H	1	100		\$196.00	0.000	\$.00	.000	\$.00	\$.00				
1560000969853FG	SUPPORT AY	11AA3	B052H	1	100		\$200.90	0.000	\$.00	.000	\$.00	\$.00				
1560001034968FG	BRACKET AY	11AA3	B052H	1	100		\$174.50	0.000	\$.00	.000	\$.00	\$.00				
1560001177596FG	VALVE ASSY	11AA3	B052H	1	100		\$231.80	0.000	\$.00	.000	\$.00	\$.00				
1560001177618FG	DUCT	11AA3	B052H	1	100		\$464.70	0.000	\$.00	.000	\$.00	\$.00				
1560001177619FG	MANIFOLD	11AA3	B052H	1	100		\$238.30	0.000	\$.00	.000	\$.00	\$.00				
1560001214661FG	FITTING AY	11AA3	B052H	1	100		\$432.60	0.000	\$.00	.000	\$.00	\$.00				
1560001214662FG	FITTING AY	11AA3	B052H	1	100		\$378.00	0.000	\$.00	.000	\$.00	\$.00				
1560001214663FG	FITTING	11AA3	B052H	1	100		\$284.80	0.000	\$.00	.000	\$.00	\$.00				
1560001214664FG	FITTING	11AA3	B052H	1	100		\$245.70	0.000	\$.00	.000	\$.00	\$.00				
1560001219703FG	FITTING AY	11AA3	B052H	1	100		\$531.50	0.000	\$.00	.000	\$.00	\$.00				
1560001219706FG	STRUT ASSY	11AA3	B052H	1	100		\$941.40	0.000	\$.00	.000	\$.00	\$.00				
1560001228190FG	FITTING	11AA3	B052H	1	100		\$307.51	0.000	\$.00	.000	\$.00	\$.00				
1560001270695FG	DOOR ACCES	11AA3	B052H	1	100		\$9785.00	0.000	\$.00	.000	\$.00	\$.00				
1560001270730FG	DOOR ACCES	11AA3	B052H	1	100		\$5117.04	0.000	\$.00	.000	\$.00	\$.00				
1560001800787FG	DOOR BB	11AA3	B052H	1	100		\$1476.00	0.000	\$.00	.000	\$.00	\$.00				
1560001800792FG	DOOR BB	11AA3	B052H	1	100		\$2516.00	0.000	\$.00	.024	\$4083.00	\$.10	A			
1560001800793FG	DOOR BB	11AA3	B052H	1	100		\$2089.00	0.000	\$.00	.012	\$90.00	\$.00	J			
1560001800794FG	DOOR BB	11AA3	B052H	1	100		\$2235.00	0.000	\$.00	.000	\$.00	\$.00				
1560001800795FG	DOOR BB	11AA3	B052H	1	100		\$2009.00	0.000	\$.00	.060	\$3467.60	\$.21	A			
1560001800804FG	DOOR BB	11AA3	B052H	1	100		\$1652.00	0.000	\$.00	.000	\$.00	\$.00				
1560002057164FG	SD RADOME	11AA3	B052H	1	100		\$3834.00	0.000	\$.00	.000	\$.00	\$.00				
1560002148439FG	BOX ASSY	11AA3	B052H	1	100		\$1072.00	0.000	\$.00	.000	\$.00	\$.00				
1560002175134FG	HEAD ASSY	11AA3	B052H	2	100		\$788.00	0.000	\$.00	.000	\$.00	\$.00				
1560002412170FG	DOOR STABL	11AA3	B052H	1	100		\$17114.67	0.000	\$.00	.000	\$.00	\$.00				
1560002412171FG	DOOR STABL	11AA3	B052H	1	100		\$2707.00	0.000	\$.00	.000	\$.00	\$.00				
1560003041827FG	CLUTCH	11AA3	B052H	1	100		\$402.00	0.000	\$.00	.000	\$.00	\$.00				

a. Master Stock Number. Identifies the reparable item master stock number, subgroup master stock number, or federal supply class used on the aircraft, missile, or engine application identified in the "NSN Application" field. This item may appear several times on the report. A report line is generated for each different work performance category (WPC) of repair on the item. On this report, multiple report lines for the same item appear in ascending WPC sequence.

b. NSN Nomenclature. Descriptive nomenclature for the stock-numbered item.

c. SWUC-WBS-COMM. This is a composite field, made up of the following data elements:

- Positions 1-2: The two-digit system-level work unit code (SWUC) for the stock-numbered item used on the aircraft MDS. This field is blank for missile MDSs.
- Positions 3-4: NSN WBS Group Code identifying the stock-numbered item to the work breakdown structure (WBS) of the aircraft or missile weapon system. See Attachment 3 for definitions of the WBS group codes.
- Position 5: Commonality code identifying the level of commonality for the stock-numbered item. Possible commonality code values and their meanings are described in Attachment 3.

d. NSN Application. The aircraft, missile, or engine system on which the stock-numbered item is used. If this field contains an engine TMS, the engine TMS is an application on the MDS.

e. NSN Quantity Per Application (QPA). Quantity of the stock-numbered item used on the aircraft, missile, or engine application.

f. NSN Percent Application. The percentage of the aircraft, missile, or engine inventory that use the stock-numbered item.

g. NSN Unit Price. Unit cost of the stock-numbered item. This is the price paid on the last buy of the item.

h. Condemnation rate. The rate includes both base and depot condemnations of the stock-numbered item. For an aircraft report, this field contains the quantity of the item condemned per 1,000 aircraft flying hours in the fiscal year. For a missile report, this field contains the quantity of the item condemned per missile in the fiscal year.

i. Condemnation Cost Rate. For an aircraft report, this field contains the stock-numbered item's condemnation cost per aircraft flying hour in the fiscal year. For a missile report, this field contains the stock-numbered item's condemnation cost per missile in the fiscal year.

j. Repair Rate. For an aircraft report, this field contains the quantity of the item repaired per 1,000 aircraft flying hours in the fiscal year by work performance category. For a missile report, this field contains the quantity of the item repaired per missile in the fiscal year by work performance category. (See note below.)

k. Average Cost to Repair. This is the average cost to repair the stock-numbered item in the fiscal year by work performance category. (See note below.)

l. Repair Cost Rate. For an aircraft report, this field contains the stock-numbered item's depot repair cost per aircraft flying hour in the fiscal year by work performance category. For a missile report, this field contains the stock-numbered item's depot repair cost per missile in the fiscal year by work performance category.

m. WPC. The work performance category for the repair. See Attachment 2 for definitions of the work performance categories.

Note: The "PQC" value is very often reported incorrectly through the AFMC maintenance accounting systems. We recommend that you **do not use** this value or any other values derived from the "PQC" value.

3.7.2.2. Q-H036C-D01-IR-8IR Part 2: Overhaul Cost Summary. This part of the report displays the *on-equipment* depot maintenance overhaul costs for MDS and TMS by work performance category. Costs are also subtotaled to the system level MDS or TMS. Reference Chapter 4 for a complete description of all computations. Some computations applicable to this report are shown below for quick reference.

a. Repair Rate for Aircraft:

$$\begin{aligned} \text{Repair Rate} / 1000 \text{ MDSFH} &= \frac{(\text{PQC}/\text{Application}/\text{WPC})(\text{OVHL FACTOR}_{\text{fh}})}{\text{MDSFH}} \times 1000 \\ &= \text{quantity of the application repaired} / \text{WPC} / 1000 \text{ MDSFH} \end{aligned}$$

where

application = an MDS or TMS

$$\text{OVHL FACTOR}_{\text{fh}} = \frac{\text{total operating hours of the application on the MDS}}{\text{total application operating hours}}$$

b. Repair Rate for Missiles:

$$\begin{aligned} \text{Repair Rate} &= \frac{(\text{PQC}/\text{Application}/\text{WPC})(\text{OVHL FACTOR}_{\text{inv}})}{\frac{\text{MDSINV}}{12}} \\ &= \text{quantity of applications repaired} / \text{WPC} / \text{MDS} \end{aligned}$$

where

application = an MDS or TMS

$$\text{OVHL FACTOR}_{\text{inv}} = \frac{\text{inventory months of the application on the MDS}}{\text{total application inventory months}}$$

c. Average Cost to Repair:

$$\text{Average Cost to Repair} = \frac{\text{Total repair cost} / \text{Application} / \text{WPC}}{\text{PQC} / \text{Application} / \text{WPC}}$$

where

application = an MDS or TMS

d. Repair Cost Rate for Aircraft:

$$\begin{aligned} \$ \text{Repair} / \text{MDSFH} &= \frac{(\text{Total repair cost} / \text{Application} / \text{WPC})(\text{OVHL FACTOR}_{\text{fh}})}{\text{MDSFH}} \\ &= \text{repair cost} / \text{Application} / \text{WPC} / \text{MDSFH} \end{aligned}$$

where

application = an MDS or TMS

$$\text{OVHL FACTOR}_{\text{fh}} = \frac{\text{total operating hours of the application on the MDS}}{\text{total application operating hours}}$$

e. Repair Cost Rate for Missiles:

$$\begin{aligned} \$ \text{Repair} / \text{Missile} &= \frac{(\text{Total repair cost} / \text{Application} / \text{WPC})(\text{OVHL FACTOR}_{\text{inv}})}{\frac{\text{MDSINV}}{12}} \\ &= \text{repair cost} / \text{Application} / \text{WPC} / \text{Missile} \end{aligned}$$

where

application = an MDS or TMS

$$\text{OVHL FACTOR}_{\text{inv}} = \frac{\text{inventory months of the application on the MDS}}{\text{total application inventory months}}$$

**Figure 3.6. Aircraft/Missile Detail Weapon System Cost Report
Part 2: Overhaul Cost Summary**

FMP		B052H STD-MDS- FLYING HRS - INV MTHS -	B052H 31898 1138	WEAPON SYSTEM COST RETRIEVAL SYSTEM FY91 DETAIL WEAPON SYSTEM COST SUMMARY FY91 COSTS IN FY91 DOLLARS PART 2: OVERHAUL COST SUMMARY										12/17/99	Q-H036C-D01-IR-8IR 3511911	PAGE 168
WBS	COM CODE	OVERHAUL TMS/MDS	APPL	QTY OVHL	APPL QTY/MDS	% ON	APPL MDS	APPL OPER %	# REPAIRED /1000 FH	AVERAGE \$/REPAIR	WPC	D/M \$/FH	DIR MIL LAB HRS	DIR CIV LAB HRS	AVERAGE PER REPAIR	HOURS
AF	1	B052H		.0	1	100	100	100	.000	\$.00	1	\$298.48	0	0	0.0	
AF	1	B052H		.0	1	100	100	100	.000	\$.00	2	\$5.02	0	0	0.0	
AF	1	B052H		1.0	1	100	100	100	.031	\$1246560.00	A	\$39.08	0	0	0.0	
AF	1	B052H		121.0	1	100	100	100	3.793	\$428842.62	B	\$1626.75	346	1075495	8891.2	
AF	1	B052H		2.0	1	100	100	100	.063	\$26230.50	I	\$1.64	0	1095	547.5	
AF	1	B052H		2342.0	1	100	100	100	73.422	\$46.08	N	\$3.38	242	1871	0.9	
B052H TOTAL												\$1974.35	588	1078461		
EO	1	TF0033003		1.0	8	49	100	100	.031	\$308.00	E	\$.01	0	6	6.0	
EO	1	TF0033003		4.0	8	49	100	100	.125	\$13096.00	G	\$1.64	0	1199	299.8	
TF0033003 TOTAL												\$1.65	0	1205		
EO	1	TF0033103		63.0	8	51	100	100	1.975	\$70766.65	A	\$139.77	0	62911	998.6	
EO	1	TF0033103		1.0	8	51	100	100	.031	\$53259.00	B	\$1.67	0	632	632.0	
TF0033103 TOTAL												\$141.44	0	63543		

a. WBS Group Code. Identifies the work breakdown structure (WBS) for the overhauled MDS or TMS. See Attachment 3 for definitions of the WBS group codes.

b. Commonality Code. Identifies the level of commonality for the overhauled application. Possible commonality code values and their meanings are described in Attachment 3.

c. Overhauled TMS or MDS Application. Identifies the weapon system MDS or propulsion system TMS undergoing on-equipment overhaul.

d. Quantity Overhauled. The quantity of aircraft, missile, or engine on-equipment depot maintenance overhauls completed on the MDS in the fiscal year by work performance category. (See note below.)

e. Application Quantity Per MDS. The number of engines used on the aircraft or missile.

f. Percent Application on MDS. The percentage of aircraft or missile MDS inventory that uses the engine TMS.

g. Application Operating Percent. The percentage of time the TMS application is operating in relation to the MDS operating time.

h. Repair Rate. For an aircraft report, this field contains the application's quantity of on-equipment repairs per 1,000 aircraft flying hours in the fiscal year by work performance category. For a missile report, this field contains the application's quantity of on-equipment repairs per missile in the fiscal year by work performance category. (See note below.)

i. Average Cost to Repair. The average cost to repair the MDS or TMS application in the fiscal year by work performance category. (See note below.)

j. WPC. The work performance category for the repair. See Attachment 2 for definitions of the work performance categories.

k. Repair Cost Rate. For an aircraft report, this field contains the application's on-equipment depot maintenance cost per aircraft flying hour in the fiscal year by work performance category. For a missile report, the field contains the application's on-equipment depot maintenance cost per missile in the fiscal year by work performance category.

l. Direct Military Labor Hours. This field contains the organic direct military labor hours and organic other direct military labor hours expended on the repair in the fiscal year by work performance category.

m. Direct Civilian Labor Hours. This field contains the organic direct civilian labor hours and organic other direct civilian labor hours expended on the repair in the fiscal year by work performance category.

n. Average Hours Per Repair. This field contains the average number of organic labor hours (direct military and direct civilian) per repair in the fiscal year by work performance category. (See note below.)

Note: The "QTY OVHL" value is very often reported incorrectly through the AFMC maintenance accounting systems. We recommend that you **do not use** this value or any other values derived from the "QTY OVHL" value.

3.7.2.3. Q-H036C-D01-IR-8IR Part 3: Cost Summary.

Part 3 of the report displays the depot maintenance and condemnation cost rates summarized by two-digit system-level WUC and by WBS. It displays the summary of sub-total lines from Part 1 and Part 2, showing sub-total costs by WBS and two-digit system-level WUC category. Reference Chapter 4 for a complete description of all computations.

**Figure 3.7. Aircraft/Missile Detail Weapon System Cost Report
Part 3: Cost Summary**

FMP	B052H STD-MDS- FLYING HRS- INV MTHS-	B052H 31898 1138	WEAPON SYSTEM COST RETRIEVAL SYSTEM FY91 DETAIL WEAPON SYSTEM COST SUMMARY FY91 COSTS IN FY91 DOLLARS PART 3: COST SUMMARY			12/17/99	Q-H036C-D01-IR-BIR	PAGE 169
							3511911	
a	WUC	b COND \$/FH	c D/M \$/FH	d WBS	e COND \$/FH	f D/M \$/FH		
11		\$5.19	\$254.40	AA	\$230.13	\$757.21		
12		\$2.28	\$24.06	EA	\$218.45	\$332.01		
13		\$148.84	\$65.96	VI	\$.01	\$1.21		
14		\$2.15	\$108.68	VC	\$8.09	\$40.78		
23		\$216.39	\$332.01	VN	\$423.87	\$263.95		
25		\$2.06	\$.00	AR	\$.54	\$36.07		
41		\$8.64	\$14.70	SU		\$20.06		
42		\$11.78	\$69.17	EXCH				
44		\$.12	\$.71	OVHL				
45		\$2.57	\$12.07	AF		\$1974.35		
46		\$3.75	\$36.70	EO		\$143.09		
47		\$.53	\$6.66	OVHL		\$2117.44		
49		\$.45	\$1.34					
51		\$2.18	\$23.15	WBS				
52		\$.65	\$10.28	TOTAL	\$881.09	\$3568.73		
55		\$.00	\$.13					
58		\$.01	\$1.08					
61		\$4.44	\$33.14					
63		\$2.46	\$.67					
64		\$.10	\$.13					
65		\$.92	\$3.80					
69		\$.17	\$3.04					
71		\$.09	\$.44					
72		\$.12	\$1.08					
73		\$225.59	\$98.11					
74		\$2.10	\$68.94					
75		\$.54	\$36.07					
76		\$195.97	\$95.38					
77		\$41.00	\$126.67					
93		\$.00	\$.00					
95		\$.00	\$2.66					
97		\$.00	\$.00					
99		\$.00	\$20.06					
TOTAL		\$881.09	\$1451.29					
REFERENCE THE REPORT FOREWORD OF THIS REPORT FOR IDENTITY OF SPECIFIC MDS, TMS, NSN, WBS, WPC, WUC INCLUDED.								

a. WUC. The two-digit system-level work unit code for the reparable items used on the aircraft MDS. (See Attachment 3 for definitions of the SWUC codes.) This column is not displayed in missile reports.

b. WUC Condemnation Cost Rate. For an aircraft report, this field contains the condemnation cost per aircraft flying hour in the fiscal year by SWUC. This column is not displayed in missile reports.

c. WUC Repair Cost Rate. For an aircraft report, this field contains the depot repair cost per aircraft flying hour in the fiscal year by SWUC. This column is not displayed in missile reports.

d. WBS Group Code. Identifies the aircraft or missile work breakdown structures (WBS). See Attachment 3 for definitions of the WBS group codes.

e. WBS Condemnation Cost Rate. For an aircraft report, this field contains the condemnation cost per aircraft flying hour in the fiscal year by WBS group code. For a missile report, this field contains the condemnation cost per missile in the fiscal year by WBS group code.

f. WBS Repair Cost Rate. For an aircraft report, this field contains the depot repair cost per aircraft flying hour in the fiscal year by WBS group code. For a missile report, this field contains the depot repair cost per missile in the fiscal year by WBS group code.

3.7.3. Aircraft/Missile Condemnation Cost Ranking Report (PCN: Q-H036C-D02-IR-8IR). *Weapon System Cost Retrieval System, FYxx Condemnation Cost Ranking, FYxx Costs In FYnn Dollars.* The purpose of this report is to identify and rank the stock-numbered items that are the high condemnation cost drivers on the MDS in the fiscal year. This report is by individual aircraft or missile MDS. The report ranks the condemnation cost rate for stock-numbered items in high-to-low sequence for the fiscal year. For an aircraft report, the ranking is based on the NSN condemnation cost per aircraft flying hour; for a missile report, the ranking is based on the NSN condemnation cost per missile. Costs can be displayed in either then-year dollars or constant-year dollars. This product's Report Foreword identifies the weapon system costs that are specifically included or excluded in the report. Reference Chapter 4 for a complete description of all computations. Some computations applicable to this report are shown below for quick reference.

a. Stock Number Condemnation Rate for Aircraft:

$$\text{Condemnation Rate/1000 MDSFH} = \frac{(\text{Base Cond} + \text{Depot Cond})(\text{NSN Factor}_{\text{fh}})}{\text{MDSFH}} \times 1000$$

where

Base Cond = quantity of the stock number condemned at base level

Depot Cond = quantity of the stock number condemned at depot level

$\text{NSN Factor}_{\text{fh}} = \frac{\text{Total operating hours for NSN on this MDS-application}}{\text{Total operating hours for NSN across all applications}}$

MDSFH = MDS flying hours in the fiscal year

b. Stock Number Condemnation Rate for Missile:

$$\text{Condemnation Rate/Missile} = \frac{(\text{Base Cond} + \text{Depot Cond})(\text{NSN Factor}_{\text{inv}})}{\frac{\text{MDSINV}}{12}}$$

where

Base Cond = quantity of the stock number condemned at base level

Depot Cond = quantity of the stock number condemned at depot level

$\text{NSN Factor}_{\text{inv}} = \frac{\text{Total inventory months for NSN on this MDS-application}}{\text{Total inventory months for NSN across all applications}}$

MDSINV = MDS inventory months in the fiscal year

c. Stock Number Condemnation Cost Rate for Aircraft:

$$\text{\$ Condemnation/MDSFH} = \frac{(\text{Condemnation Rate/1000 MDSFH})(\text{NSN Unit Price})}{1000}$$

d. Stock Number Condemnation Cost Rate per Missile:

$$\text{\$ Condemnation/Missile} = (\text{Condemnation Rate/Missile})(\text{NSN Unit Price})$$

Figure 3.8. Aircraft/Missile Condemnation Cost Ranking Report

FMP	B052H STD MDS - FLYING HRS - INV MTHS -	B052H 31898 1138	WEAPON SYSTEM COST RETRIEVAL SYSTEM FY91 CONDEMNATION COST RANKING FY91 COSTS IN FY91 DOLLARS				12/17/99	Q-H036C-D02-IR-8IR	PAGE	1
								3511911		
a RANK	b MASTER STOCK NO (NSN)	c NSN NOMENCLATURE	d SWUC - WBS - COMM	e NSN APPLICATION	f NSN QPA	g NSN % APPL	h NSN LAST BUY UNIT PRICE	i # NSN COND /1000 FH	j NSN COND \$/FH	
1	1280010569137	RECEIVER T	73VN3	B052H	1	5	\$138320.00	1.435	\$198.50	
2	1630013154062	BRAKE ASSY	13AA3	B052H	8	100	\$9347.25	9.732	\$90.96	
3	5865010339537EW	ALQ117LRU4	76VN4	B052H	2	100	\$141854.00	0.579	\$82.06	
4	5865000898905EW	BD 10 BWO	76VN3	B052H	1	100	\$4493.89	9.647	\$43.35	
5	5865000539897EW	BD 9 BWO	76VN3	B052H	1	100	\$2535.00	13.193	\$33.44	
6	1620002421514	CYL MLG	13AA3	B052H	4	100	\$11769.16	2.327	\$27.39	
7	6605012252276	ESG SUBASY	73VN4	B052H	4	100	\$20110.75	1.050	\$21.11	
8	2840004399236RV 2840004399236RV 2840004399236RV	(3)BLD SET (3)BLD SET (3)BLD SET	23 4 23EA4 23EA4	TF0033003 TF0033103	16 16	100 100	\$3424.75 \$3424.75 \$3424.75	2.718 2.829	\$19.00 \$9.31 \$9.69	
9	5821003714346AY	STV CAMERA	77AA3	B052H	1	100	\$193425.00	0.096	\$18.67	
10	2840007990109RV 2840007990109RV 2840007990109RV	3 DISK 15 3 DISK 15 3 DISK 15	23 4 23EA4 23EA4	TF0033003 TF0033103	1 1	100 100	\$2961.16 \$2961.16 \$2961.16	2.719 2.830	\$16.43 \$8.05 \$8.38	
11	2995013126012	CHAMBER AY	23EA4	B052H	8	100	\$6551.83	1.905	\$12.48	
12	5865010482098EW	RECEIVER	76VN4	B052H	2	100	\$164896.00	0.072	\$11.82	
13	1620013153296	INNER CYL	13AA3	B052H	4	100	\$37996.70	0.289	\$11.00	
14	2840ND057232HRV 2840ND057232HRV 2840ND057232HRV	OC DISK OC DISK OC DISK	23 4 23EA4 23EA4	TF0033003 TF0033103	1 1	100 100	\$5253.83 \$5253.83 \$5253.83	1.024 1.066	\$10.98 \$5.38 \$5.60	
15	2620005758886	IRE MAIN	13AA3	B052H	8	100	\$1055.75	8.309	\$8.77	
16	1280001596188	SCANNER	77AA3	B052H	1	100	\$659683.00	0.012	\$7.98	
17	2840004399237RV 2840004399237RV 2840004399237RV	3BLADESET2 3BLADESET2 3BLADESET2	23 4 23EA4 23EA4	TF0033003 TF0033103	57 57	100 100	\$391.00 \$391.00 \$391.00	9.605 9.998	\$7.67 \$3.76 \$3.91	
18	2840004427111RV	2CASE IGV	23EA1	TF0033003	1	100	\$60651.55	0.125	\$7.61	
19	2840007990114RV 2840007990114RV 2840007990114RV	3DISK 14ST 3DISK 14ST 3DISK 14ST	23 1 23EA1 23EA1	TF0033003 TF0033103	1 1	100 100	\$4729.76 \$4729.76 \$4729.76	0.753 0.783	\$7.27 \$3.56 \$3.71	
20	5865012047659EW	TRANSMITR	76VN4	B052H	10	100	\$24794.28	0.251	\$6.22	
21	2840007877822RV 2840007877822RV 2840007877822RV	DISK 13S DISK 13S DISK 13S	23 1 23EA1 23EA1	TF0033003 TF0033103	1 1	100 100	\$3316.93 \$3316.93 \$3316.93	0.860 0.895	\$5.82 \$2.85 \$2.97	
22	5960009053822EW	CRT	76VN3	B052H	1	100	\$3197.88	1.809	\$5.78	
23	2840007982846RV 2840007982846RV 2840007982846RV	3CASE VNE 3CASE VNE 3CASE VNE	23 1 23EA1 23EA1	TF0033003 TF0033103	1 1	100 100	\$90277.86 \$90277.86 \$90277.86	0.031 0.032	\$5.66 \$2.77 \$2.89	
24	1630002420942	WHEEL ASSY	13AA3	B052H	8	100	\$3572.04	1.519	\$5.43	
25	2915011620920RV 2915011620920RV 2915011620920RV	1MANIFD LH 1MANIFD LH 1MANIFD LH	23 4 23EA4 23EA4	TF0033003 TF0033103	1 1	100 100	\$15450.00 \$15450.00 \$15450.00	0.170 0.176	\$5.35 \$2.62 \$2.73	
26	2840004728412RV	DISKTURB2	23 1				\$11862.51		\$4.84	

a. Rank. Condemnation cost ranking for the stock-numbered item used on the aircraft or missile MDS in the fiscal year. The ranking is based on the stock-numbered item's condemnation cost per aircraft flying hour (or per missile) in high-to-low sequence.

b. Stock Number. Identifies the reparable item master or subgroup master stock number used on the application identified in the "NSN Application" field.

c. NSN Nomenclature. Descriptive nomenclature for the stock-numbered item.

d. SWUC-WBS-COMM. This is a composite field, made up of the following data elements:

- Positions 1-2: The two-digit system-level work unit code (SWUC) for the stock-numbered item used on the aircraft MDS. This field is blank for missile MDSs.
- Positions 3-4: NSN WBS Group Code identifying the stock-numbered item to the work breakdown structure (WBS) of the aircraft or missile weapon system. See Attachment 3 for definitions of the WBS group codes.
- Position 5: Commonality code identifying the level of commonality for the stock-numbered item. Possible commonality code values and their meanings are described in Attachment 3.

e. NSN Application. The aircraft, missile, or engine on which the stock-numbered item is used. If the application is an engine TMS, the engine TMS is used on the aircraft or missile MDS.

f. NSN Quantity Per Application (QPA). Quantity of this stock-numbered item used on the aircraft, missile, or engine application.

g. NSN Percent Application. The percentage of the aircraft, missile, or engine inventory using the stock-numbered item.

h. NSN Unit Price. Unit price of the stock-numbered item. This is the price paid on the last buy of the item.

i. NSN Condemnation Rate. The rate includes both base and depot condemnations of the stock-numbered item. For an aircraft report, this field contains the quantity of the item condemned per 1,000 aircraft flying hours in the fiscal year. For a missile report, this field contains the quantity of the item condemned per missile in the fiscal year.

j. NSN Condemnation Cost Rate. For an aircraft report, this field contains the stock-numbered item's condemnation cost per aircraft flying hour in the fiscal year. For a missile report, this field contains the stock-numbered item's condemnation cost per missile in the fiscal year.

3.7.4. Depot Maintenance Cost Ranking Report (PCN: Q-H036C-D03-IR-8IR). *Weapon System Cost Retrieval System, FYxx Component Depot Maintenance Cost Ranking, FYxx Cost in FYnn Dollars.* The intent of this report is to identify and rank the stock-numbered items that are the high depot repair cost drivers on the aircraft or missile MDS in the fiscal year. This report is by individual aircraft or missile MDS. The report ranks the depot repair cost of stock-numbered items in high-to-low sequence for the fiscal year. This report displays *off-equipment* depot repair costs only, it does not display on-equipment depot repair cost. Multiple report lines may be displayed for the same item, with each report line displaying costs by different work performance category (WPC). The individual WPC repair cost rates are summed to get the NSN's total depot repair cost per aircraft flying hour (or per missile). Multiple report lines for the same item appear together on the report in ascending WPC sequence. For an aircraft report, the ranking is based on the NSN's total depot repair cost per aircraft flying hour; for a missile report, the ranking is based on the NSN's total depot repair cost per missile. Costs can be displayed in either then-year dollars or constant-year dollars. This product's Report Foreword identifies the weapon system costs that are specifically included or excluded in the report. Reference Chapter 4 for a complete description of all computations. Some computations applicable to this report are shown below for quick reference.

a. Repair Rate for Aircraft:

$$\text{Repair Rate/1000 MDSFH} = \frac{(\text{PQC/Item/WPC})(\text{Factor})}{\text{MDSFH}} \times 1000$$

$$= \text{quantity of the item repaired/WPC/1000 MDSFH}$$

where Factor value varies by NSN or FSC item:

$$\text{NSN: Factor} = \text{NSN Factor}_{\text{fh}}$$

$$\text{FSC: Factor} = \text{FSC FACTOR}$$

b. Repair Rate for Missiles:

$$\text{Repair Rate/missile} = \frac{(\text{PQC/Item/WPC})(\text{Factor})}{\frac{\text{MDSINV}}{12}}$$

$$= \text{quantity of the item repaired/WPC/MDS}$$

where Factor value varies by NSN or FSC item:

$$\text{NSN: Factor} = \text{NSN Factor}_{\text{inv}}$$

$$\text{FSC: Factor} = \text{FSC FACTOR}$$

c. Average Cost to Repair:

$$\text{Average Cost to Repair} = \frac{\text{Total repair cost/Item/WPC}}{\text{PQC/Item/WPC}}$$

d. Repair Cost Rate for Aircraft:

$$\text{\$ Repair/MDSFH} = \frac{(\text{Total repair cost/Item/WPC})(\text{Factor})}{\text{MDSFH}}$$

$$= \text{repair cost/Item/WPC/MDSFH}$$

where Factor value varies by NSN or FSC item:

$$\text{NSN: Factor} = \text{NSN Factor}_{\text{fh}}$$

$$\text{FSC: Factor} = \text{FSC FACTOR}$$

e. Repair Cost Rate for Missiles:

$$\text{\$ Repair/Missile} = \frac{(\text{Total repair cost/Item/WPC})(\text{Factor})}{\frac{\text{MDSINV}}{12}}$$

$$= \text{repair cost/Item/WPC/Missile}$$

where Factor value varies by NSN or FSC item:

$$\text{NSN: Factor} = \text{NSN Factor}_{\text{inv}}$$

$$\text{FSC: Factor} = \text{FSC FACTOR}$$

Figure 3.9. Depot Maintenance Cost Ranking Report

FMP	B052H STD MDS - FLYING HRS - INV MTHS -	B052H 31898 1138	WEAPON SYSTEM COST RETRIEVAL SYSTEM FY91 COMPONENT DEPOT MAINTENANCE COST RANKING FY91 COST IN FY91 DOLLARS					12/17/99	Q-H036C-D03-IR-8IR		PAGE	1
a	b	c	d	e	f	g	h	i	j	k	l	m
RANK	MASTER STOCK NO (NSN)	NSN NOMENCLATURE	SWUC- WBS-COMM	NSN APPLICATION	NSN QPA	NSN % APPL	NSN LAST BUY UNIT PRICE	# NSN REPAIRED /1000 FH	NSN AVG \$/REPAIR	NSN D/M \$/FH	WPC	
1	5821003714346AY	STV CAMERA	77AA3	B052H	1	100	\$193425.00	2.134	\$31439.01	\$67.11	A	
2	2840009158261RV	2 ROTOR LST	23 1	TF0033003	1	100	\$119302.00	1.413	\$13846.97	\$39.94	A	
	2840009158261RV	2 ROTOR LST	23EA1	TF0033103	1	100	\$119302.00	1.471	\$13846.97	\$20.37	A	
3	1280001675553	TUBE ASSY	77AA3	B052H	1	100	\$24752.00	1.495	\$26616.89	\$39.80	A	
4	6605011911560	INERT M U	73 4	B052H	2	100	\$185902.60	6.538	\$5835.62	\$38.16	A	
	6605011911560	INERT M U	73VN4	B052H	2	100	\$185902.60	.072	\$168.00	\$38.15	A	
	6605011911560	INERT M U	73VN4	B052H	2	100	\$185902.60	.072	\$168.00	\$0.1	L	
5	2915008467128RV	1 FUEL CNTL	23 1	TF0033003	1	100	\$41867.44	1.797	\$10078.40	\$37.00	A	
	2915008467128RV	1 FUEL CNTL	23EA1	TF0033003	1	100	\$41867.44	.015	\$1157.00	\$18.11	A	
	2915008467128RV	1 FUEL CNTL	23EA1	TF0033003	1	100	\$41867.44	.015	\$1157.00	\$0.02	G	
	2915008467128RV	1 FUEL CNTL	23EA1	TF0033103	1	100	\$41867.44	1.871	\$10078.40	\$18.85	A	
	2915008467128RV	1 FUEL CNTL	23EA1	TF0033103	1	100	\$41867.44	.016	\$1157.00	\$0.02	G	
6	1560008569394FG	COWL	11 1	B052H	4	100	\$199820.00	1.850	\$19641.66	\$36.33	A	
	1560008569394FG	COWL	11AA1	B052H	4	100	\$199820.00	.031	\$19.00	\$36.33	A	
	1560008569394FG	COWL	11AA1	B052H	4	100	\$199820.00	.031	\$19.00	\$0.00	G	
7	1560008569395FG	COWL	11AA1	B052H	4	100	\$179220.00	2.006	\$17733.91	\$35.58	A	
8	1650000792295	CSD	42AA4	B052H	4	100	\$83666.90	3.406	\$9144.65	\$31.15	A	
9	1560006183881FG	PANEL ASSY	11AA1	B052H	4	100	\$64125.00	1.285	\$24135.34	\$31.02	A	
10	2840006859482RV	2 ROTOR RC	23 1	TF0033003	1	100	\$222206.00	.968	\$14436.94	\$28.53	A	
	2840006859482RV	2 ROTOR RC	23EA1	TF0033003	1	100	\$222206.00	.015	\$516.00	\$13.97	A	
	2840006859482RV	2 ROTOR RC	23EA1	TF0033103	1	100	\$222206.00	1.007	\$14436.94	\$14.54	A	
	2840006859482RV	2 ROTOR RC	23EA1	TF0033103	1	100	\$222206.00	.016	\$516.00	\$0.01	G	
11	2840012355250RV	GEARBOX	23EA1	TF0033103	1	100	\$95790.00	1.881	\$15127.95	\$28.46	A	
12	1560006152539FG	PANEL	11AA1	B052H	4	100	\$64125.00	1.223	\$21946.54	\$26.83	A	
13	2840012355252RV	RTR FR CPR	23EA1	TF0033103	1	100	\$363697.60	1.818	\$14137.16	\$25.71	A	
14	1420	75AR5	75 5	B052H	0	0	\$0.00	.460	\$40401.87	\$18.66	A	
	1420	75AR5	75AR5	B052H	0	0	\$0.00	.079	\$50.94	\$18.59	A	
	1420	75AR5	75AR5	B052H	0	0	\$0.00	.114	\$62.70	\$0.00	E	
	1420	75AR5	75AR5	B052H	0	0	\$0.00	.001	\$1128.00	\$0.01	I	
	1420	75AR5	75AR5	B052H	0	0	\$0.00	.050	\$96.81	\$0.00	J	
	1420	75AR5	75AR5	B052H	0	0	\$0.00	.664	\$88.71	\$0.00	K	
	1420	75AR5	75AR5	B052H	0	0	\$0.00	.664	\$88.71	\$0.06	N	
15	2915005853651	VALVE	46 3	B052H	17	100	\$3554.10	12.529	\$1358.01	\$17.51	A	
	2915005853651	VALVE	46AA3	B052H	17	100	\$3554.10	1.893	\$68.59	\$17.02	A	
	2915005853651	VALVE	46AA3	B052H	17	100	\$3554.10	9.153	\$38.89	\$1.33	G	
	2915005853651	VALVE	46AA3	B052H	17	100	\$3554.10	9.153	\$38.89	\$0.36	J	
16	5985012972613AY	SR ANTENNA	61VC3	B052H	1	95	\$110622.00	2.578	\$6791.45	\$17.51	A	
17	1270009470810	GUN LAY MT	74VN1	B052H	1	100	\$2575000.00	.376	\$43091.00	\$16.21	A	
18	1560007980903FG	PANEL	11AA1	B052H	4	100	\$64125.00	1.035	\$15669.76	\$16.21	A	
19	1270011139446	FREQ CONV	74VN1	B052H	2	100	\$76514.58	2.383	\$6703.12	\$15.97	A	
20	1560006287871FG	FLAP ASSY	14AA3	B052H	1	100	\$14716.00	.579	\$26152.79	\$15.14	A	
21	1560006287870FG	FLAP ASSY	14AA3	B052H	1	100	\$14716.00	.482	\$29889.10	\$14.42	A	
22	5865010588804EW	TMTR ALT32	76VN3	B052H	2	100	\$13011.00	3.015	\$4537.62	\$13.68	A	

a. Rank. Depot repair cost ranking for the stock-numbered item on the MDS in the fiscal year. The ranking is based on the stock-numbered item's depot maintenance cost per aircraft flying hour (or per missile) in high-to-low sequence.

b. Stock Number. Identifies the reparable item master stock number, subgroup master stock number, or federal supply class used on the aircraft, missile, or engine application identified in the "NSN Application" field. Multiple report lines may be generated for a single stock-numbered item. One report line is generated for each different work performance category (WPC) of repair. If there are two or more WPCs for an item, a total line (containing the rank number) is displayed which contains the sum of the individual WPC repair cost rates. On this report, multiple report lines for the same item will appear together under one rank number in ascending WPC sequence.

c. NSN Nomenclature. Descriptive nomenclature for the stock-numbered item.

d. SWUC-WBS-COMM. This is a composite field, made up of the following data elements:

- Positions 1-2: The two-digit system-level work unit code (SWUC) for the stock-numbered item used on the aircraft MDS. This field is blank for missile MDSs.
- Positions 3-4: NSN WBS Group Code identifying the stock-numbered item to the work breakdown structure (WBS) of the aircraft or missile weapon system. See Attachment 3 for definitions of the WBS group codes.
- Position 5: Commonality code identifying the level of commonality for the stock-numbered item. Possible commonality code values and their meanings are described in Attachment 3.

e. NSN Application. The aircraft, missile, or engine on which the stock-numbered item is used. If the application is an engine TMS, the engine TMS is used on the aircraft or missile MDS.

f. NSN Quantity Per Application (QPA). Quantity of this stock-numbered item used on the aircraft, missile, or engine application.

g. NSN Percent Application. The percentage of the aircraft, missile, or engine inventory that use the stock-numbered item.

h. NSN Unit Price. Unit price of the stock-numbered item. This is the last buy price of the item.

i. Repair Rate. For an aircraft report, this field contains the quantity of the item repaired per 1,000 aircraft flying hours in the fiscal year by work performance category. For a missile report, this field contains the quantity of the item repaired per missile in the fiscal year by work performance category. (See note below.)

j. Average Cost to Repair. Average cost to repair the stock-numbered item in the fiscal year by work performance category. (See note below.)

k. Repair Cost Rate. For an aircraft report, this field contains the stock-numbered item's depot repair cost per aircraft flying hour in the fiscal year by work performance category. For a missile report, this field contains the stock-numbered item's depot repair cost per missile in the fiscal year by work performance category.

l. WPC. Work performance category identifying the type of work performed. (See Attachment 2 for definitions of the work performance categories.)

Note: The "PQC" value is very often reported incorrectly through the AFMC maintenance accounting systems. We recommend that you **do not** use this value or any other values derived from the "PQC" value.

3.7.5. Aircraft/Missile Depot Maintenance Detail Labor, Material, Overhead Report (PCN: Q-H036C-D04-IR-8IR). *Weapon System Cost Retrieval System, FYxx Depot Maintenance Costs, FYxx Costs in FYnn Dollars.* The intent of this report is to provide detailed depot labor, material, overhead costs and man-hour information, on an item-by-item basis, for each reparable item used on an aircraft or missile MDS for the fiscal year. This report has three parts, described below. Costs in the report can be displayed in either then-year dollars or constant-year dollars. This product's Report Foreword identifies the aircraft or missile weapon system costs that are specifically included or excluded in the report.

3.7.5.1. Q-H036C-D04-IR-8IR Part 1: Off-Equipment Repair Summary. This part of the report displays the *off-equipment* depot repair costs in two-digit system-level WUC/NSN sequence for each reparable item on the MDS. Multiple report lines may be displayed for the same item, with each report line displaying depot repair costs by different work performance category. Multiple report lines for the same item appear together on the report in ascending WPC sequence. When multiple report lines for the same are displayed, an NSN total line is also displayed showing the total NSN depot repair costs for the aircraft or missile MDS. The weapon system costs are also subtotaled by two-digit system level WUC.

3.7.5.2. Q-H036C-D04-IR-8IR Part 2: On-Equipment Repair Summary. This part of the report displays the *on-equipment* depot repair overhaul costs for the aircraft or missile MDS, or engine TMS, by work performance category. Costs are also subtotaled by aircraft, missile, or engine.

3.7.5.3. Q-H036C-D04-IR-8IR Part 3: Cost Summary. This part of the report displays a summary of sub-total lines from Part 1 and Part 2, showing total costs by WBS and two-digit system-level WUC category.

3.7.6. Detail Database Download Weapon System Cost

Report. *Download MDS Cost Report.* This file is generated to satisfy Detail Database interrogations for weapon system cost data, giving the user the option of receiving the Q-H036C-D01-IR-8IR and Q-H036C-D04-IR-8IR report cost data on electronic media (floppy disk or CD-ROM) rather than on paper. Available formats include ASCII, spreadsheet, or database file. Record descriptions are provided to the user when this file is requested.

a. Master Stock Number. Identifies the reparable item master stock number, subgroup master stock number, or federal supply class used on the aircraft, missile, or engine application identified in the "NSN Application" field. This item may appear several times on the report. One report line is generated for each different work performance category (WPC) of repair on the item. On this report, multiple report lines for the same item appear together in ascending WPC sequence.

b. NSN Nomenclature. Descriptive nomenclature for the stock-numbered item.

c. SWUC-WBS-COMM. This is a composite field, made up of the following data elements:

- Positions 1-2: The two-digit system-level work unit code (SWUC) for the stock-numbered item used on the aircraft MDS. This field is blank for missile MDSs.
- Positions 3-4: NSN WBS Group Code identifying the stock-numbered item to the work breakdown structure (WBS) of the aircraft or missile weapon system. See Attachment 3 for definitions of the WBS group codes.
- Position 5: Commonality code identifying the level of commonality for the stock-numbered item. Possible commonality code values and their meanings are described in Attachment 3.

Figure 3.10. Aircraft/Missile Depot Maintenance Detail Labor, Material, Overhead Report
Part 1: Off-Equipment Repair Summary

FMP	B052H STD MDS- FLYING HRS- INV MTHS-		B052H 31898 1138		WEAPON SYSTEM COST RETRIEVAL SYSTEM FY91 DEPOT MAINTENANCE COSTS FY91 COSTS IN FY91 DOLLARS PART 1: OFF-EQUIPMENT REPAIR SUMMARY										12/17/99	Q-H036C-D04-IR-8IR		PAGE	1
MASTER STOCK NO (NSN)		NSN NOMEN- CLATURE	SWUC- WBS- COMM	NSN APPLICATION	NSN QPA	NSN APP	MAN- HOURS	FIXED COST	ORGANIC LABOR COST	MAT'L COST	OTHER COST	CONTRACT COST	GFM/GFS COST	TOTAL VARIABLE COST	W P C				
1560			11 5				3305	28702	65579	9697	58576	9862	872	144586					
1560			11AA5	B052H	0	0	12	91	216	173	107	9862	872	11230	A				
1560			11AA5	B052H	0	0	26	382	693	0	359	0	0	1052	G				
1560			11AA5	B052H	0	0	402	4173	9264	455	6903	0	0	16622	I				
1560			11AA5	B052H	0	0	66	531	1423	0	988	0	0	2411	J				
1560			11AA5	B052H	0	0	2732	22767	52339	8916	49164	0	0	110419	K				
1560			11AA5	B052H	0	0	67	758	1644	153	1055	0	0	2852	N				
1560000051836FG	FAIRING	AY	11AA3	B052H	1	100	0	0	0	0	0	0	0	0					
1560000051837FG	FAIRING	AY	11AA3	B052H	1	100	0	0	0	0	0	0	0	0					
1560000482041FG	RAADOMME		11AA3	B052H	1	20	1672	14247	33432	2912	30438	0	0	66782	A				
1560000922977FG	SNUBBER	AY	11AA3	B052H	1	100	0	0	0	0	0	0	0	0					
1560000969853FG	SUPPORT	AY	11AA3	B052H	1	100	0	0	0	0	0	0	0	0					
1560001034968FG	BRACKET	AY	11AA3	B052H	1	100	0	0	0	0	0	0	0	0					
1560001177596FG	VALVE ASSY		11AA3	B052H	1	100	0	0	0	0	0	0	0	0					
1560001177618FG	DUCT		11AA3	B052H	1	100	0	0	0	0	0	0	0	0					
1560001177619FG	MANIFOLD		11AA3	B052H	1	100	0	0	0	0	0	0	0	0					
1560001214661FG	FITTING	AY	11AA3	B052H	1	100	0	0	0	0	0	0	0	0					
1560001214662FG	FITTING	AY	11AA3	B052H	1	100	0	0	0	0	0	0	0	0					
1560001214663FG	FITTING		11AA3	B052H	1	100	0	0	0	0	0	0	0	0					
1560001214664FG	FITTING		11AA3	B052H	1	100	0	0	0	0	0	0	0	0					
1560001219703FG	FITTING	AY	11AA3	B052H	1	100	0	0	0	0	0	0	0	0					
1560001219706FG	STRUT ASSY		11AA3	B052H	1	100	0	0	0	0	0	0	0	0					
1560001228190FG	FITTING		11AA3	B052H	1	100	0	0	0	0	0	0	0	0					
1560001270695FG	DOOR ACCES		11AA3	B052H	1	100	0	0	0	0	0	0	0	0					
1560001270730FG	DOOR ACCES		11AA3	B052H	1	100	0	0	0	0	0	0	0	0					
1560001800787FG	DOOR BB		11AA3	B052H	1	100	0	0	0	0	0	0	0	0					
1560001800792FG	DOOR BB		11AA3	B052H	1	100	73	676	1394	55	1016	0	0	2465	A				
1560001800793FG	DOOR BB		11AA3	B052H	1	100	1	7	15	0	13	0	0	28	J				
1560001800794FG	DOOR BB		11AA3	B052H	1	100	0	0	0	0	0	0	0	0					
1560001800795FG	DOOR BB		11AA3	B052H	1	100	152	1330	3004	331	2004	0	0	5339	A				
1560001800804FG	DOOR BB		11AA3	B052H	1	100	0	0	0	0	0	0	0	0					
1560002057164FG	SD RADOME		11AA3	B052H	1	100	0	0	0	0	0	0	0	0					
1560002148439FG	BOX ASSY		11AA3	B052H	1	100	0	0	0	0	0	0	0	0					
1560002175134FG	HEAD ASSY		11AA3	B052H	2	100	0	0	0	0	0	0	0	0					
1560002412170FG	DOOR STABL		11AA3	B052H	1	100	0	0	0	0	0	0	0	0					
1560002412171FG	DOOR STABL		11AA3	B052H	1	100	0	0	0	0	0	0	0	0					
1560003041827FG	CLUTCH		11AA3	B052H	1	100	0	0	0	0	0	0	0	0					

d. NSN Application. The aircraft, missile, or engine on which the stock-numbered item is used. If this field contains an engine TMS, the engine TMS is used on the aircraft or missile MDS.

e. NSN Quantity Per Application (QPA). Quantity of the stock-numbered item used on the aircraft, missile, or engine.

f. NSN Application Percent. The percentage of the aircraft, missile, or engine inventory that uses the stock-numbered item.

g. Organic Man-hours. The organic off-equipment depot labor man-hours expended on the repair of the item in the fiscal year by work performance category. The man-hours include direct civilian labor hours, other direct civilian labor hours, direct military labor hours, and other direct military labor hours.

h. Organic Fixed Cost. The fixed portion of the organic off-equipment depot repair cost for the stock-numbered item in the fiscal year by work performance category. This cost is the funded General and Administrative overhead cost.

i. Organic Labor Cost. The organic off-equipment depot repair labor costs for the stock-numbered item in the fiscal year by work performance category. This cost includes any direct civilian labor cost, other direct civilian labor cost, direct military labor cost, and other direct military labor cost.

j. Organic Material Cost. The organic off-equipment depot repair material cost for the stock-numbered item in the fiscal year by work

performance category. This cost is the funded direct expense material cost.

k. Organic Other Cost. The organic off-equipment depot repair other costs for the stock-numbered item in the fiscal year by work performance category. This cost includes any funded other direct cost, funded operations overhead cost, and funded organic maintenance support costs.

l. Contract Cost. The contract off-equipment depot repair cost for the stock-numbered item in the fiscal year by work performance category. This cost includes any contract and interservice cost.

m. GFM/GFS Cost. The government furnished contract off-equipment depot repair cost for the stock-numbered item in the fiscal year by work performance category. This cost includes any government furnished expense material and funded government furnished services.

n. Total Variable Cost. The total variable off-equipment depot repair costs for the stock-numbered item in the fiscal year by work performance category. This cost is the sum of the labor cost, material cost, other cost, contract cost, and GFM/GFS cost fields. (Note: Organic fixed cost plus total variable cost = total depot repair cost.)

o. Work Performance Category. The work performance category for the repair. (See Attachment 2 for definitions of the work performance categories.)

Figure 3.11. Aircraft/Missile Depot Maintenance Detail Labor, Material, Overhead Report
Part 2: On-Equipment Repair Summary

FMP	B052H STD MDS- FLYING HRS- INV MTHS-		B052H 31898 1138		WEAPON SYSTEM COST RETRIEVAL SYSTEM FY91 DEPOT MAINTENANCE COSTS FY91 COSTS IN FY91 DOLLARS PART 2: ON-EQUIPMENT REPAIR SUMMARY						12/17/99	Q-H036C-D04-IR-8IR 3511911		PAGE 168
a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
WBS	OVERHAULED TMS/MDS	COM CD	QPA	APPL %	OPER %	MAN- HOURS	FIXED \$COST	ORGANIC LABOR \$COST	MAT'L \$COST	OTHER \$COST	CONTRACT \$COST	GFM/GFS \$COST	TOTAL VARIABLE \$COST	WPC
AF	B052H	1	1	100	100	0	0	0	0	0	9521000	0	9521000	1
AF	B052H	1	1	100	100	0	0	0	0	0	160000	0	160000	2
AF	B052H	1	1	100	100	0	0	0	0	0	1228138	18422	1246560	A
AF	B052H	1	1	100	100	1075841	8390179	16753967	5516487	21229324	0	0	43499778	B
AF	B052H	1	1	100	100	1095	12000	22563	10	17888	0	0	40461	I
AF	B052H	1	1	100	100	2113	16793	35531	0	55598	0	0	91129	N
	B052H	TOTALS				1079049	8418972	16812061	5516497	21302810	10909138	18422	54558928	
EO	TF0033003	1	8	49	100	6	42	113	0	153	0	0	266	E
EO	TF0033003	1	8	49	100	1199	8469	26758	0	17157	0	0	43915	G
	TF0033003	TOTALS				1205	8511	26871	0	17310	0	0	44181	
EO	TF0033103	1	8	51	100	62911	535926	1253401	1351419	1317549	0	0	3922369	A
EO	TF0033103	1	8	51	100	632	4857	12990	19818	15594	0	0	48402	B
	TF0033103	TOTALS				63543	540783	1266391	1371237	1333143	0	0	3970771	
AF	TOTALS					1079049	8418972	16812061	5516497	21302810	10909138	18422	54558928	
EO	TOTALS					64748	549294	1293262	1371237	1350453	0	0	4014952	
GRAND	TOTALS					1143797	8968266	18105323	6887734	22653263	10909138	18422	58573880	

a. WBS Group Code. Identifies the work breakdown structure (WBS) for the overhauled aircraft or missile MDS or engine TMS. (See Attachment 3 for definitions of the WBS group codes.)

b. Overhauled TMS or MDS Application. Identifies the aircraft or missile weapon system MDS or propulsion system TMS undergoing on-equipment overhaul.

c. Commonality Code. Identifies the level of commonality for the overhauled application. Possible commonality code values and their meanings are described in Attachment 3.

d. Quantity per Application (QPA). The quantity of the engine TMS used on the aircraft or missile MDS.

e. Application Percent. The percentage of aircraft or missile MDS inventory that use the engine TMS for an application.

f. Application Operating Percent. The percentage of time the TMS application is operating in relation to the MDS operating time.

g. Organic Man-hours. The organic on-equipment depot repair labor man-hours expended during the repair of the aircraft, missile, or engine in the fiscal year by work performance category. The man-hours include any direct civilian labor hours, other direct civilian labor hours, direct military labor hours, and other direct military labor hours.

h. Organic Fixed Cost. The fixed portion of the organic depot on-equipment repair cost for the aircraft, missile, or engine in the fiscal year by work performance category. This cost is the funded General and Administrative overhead cost.

i. Organic Labor Cost. The organic on-equipment depot labor costs expended on the aircraft, missile, or engine in the fiscal year by work performance category. This cost includes any direct civilian labor

cost, other direct civilian labor cost, direct military labor cost, and other direct military labor cost.

j. Organic Material Cost. The organic on-equipment depot repair material cost expended on the aircraft, missile, or engine in the fiscal year by work performance category. This cost is the funded direct expense material cost.

k. Organic Other Cost. The organic on-equipment depot repair other costs expended on the aircraft, missile, or engine in the fiscal year by work performance category. This cost includes any funded other direct cost, funded operations overhead cost, and funded organic maintenance support costs.

l. Contract Cost. The contract on-equipment depot repair cost expended on the aircraft, missile, or engine in the fiscal year by work performance category. This cost includes any contract and interservice cost.

m. GFM/GFS Cost. The government furnished contract on-equipment depot repair cost expended on the aircraft, missile, or engine in the fiscal year by work performance category. This cost includes any government furnished expense material and funded government furnished services.

n. Total Variable Cost. The total variable on-equipment depot repair costs expended on the aircraft, missile, or engine in the fiscal year by work performance category. This cost is the sum of the labor cost, material cost, other cost, contract cost, and GFM/GFS cost fields. (Note: Organic fixed cost plus total variable cost = total depot repair cost.)

o. Work Performance Category. The work performance category for the repair. (See Attachment 2 for definitions of the work performance categories).

Figure 3.12. Aircraft/Missile Depot Maintenance Detail Labor, Material, Overhead Report
Part 3: Cost Summary

FMP	B052H STD MDS- FLYING HRS- INV MTHS-	B052H 31898 1138	WEAPON SYSTEM COST RETRIEVAL SYSTEM					12/17/99	Q-H036C-D04-IR-8IR		PAGE 169
			FY91 DEPOT MAINTENANCE COSTS								
			FY91 COSTS IN FY91 DOLLARS					3511911			
			PART 3: COST SUMMARY								
a WBS	c MAN- HOURS	d FIXED \$COST	e ORGANIC LABOR \$COST	f MAT'L \$COST	g OTHER \$COST	h CONTRACT \$COST	i GFM/GFS \$COST	j TOTAL VARIABLE \$COST	k TOTAL \$COST		
AA	321901	2690301	5664770	9706868	5734786	349834	11627	21467885	24158186		
EA	132384	1168270	2605779	3275511	2013833	1421721	105683	9422527	10590797		
VI	754	6781	15990	4061	11347	451	-3	31846	38627		
VC	18089	170201	380777	387872	332988	29726	412	1131775	1301976		
VN	91046	795777	1836153	1954480	1572720	2126227	135076	7624656	8420433		
AR	11082	99788	209363	70670	178751	540419	52509	1051712	1151500		
SU	835	71251	13816	3816	14039	589158	9215	632479	639925		
EXCH SUBTOTAL	576091	4938451	10729083	15403278	9858464	5057536	314519	41362880	46301331		
AF	1079049	8418972	16812061	5516497	21302810	10909138	18422	54558928	62977900		
EO	64748	549294	1293262	1371237	1350453	0	0	4014952	4564246		
OVHL SUBTOTAL	1143797	8968266	18105323	6887734	22653263	10909138	18422	58573880	67542146		
WBS TOTAL	1719888	13906717	28834406	22291012	32511727	15966674	332941	99936760	113843477		
b WUC	MAN- HOURS	FIXED \$COST	ORGANIC LABOR \$COST	MAT'L \$COST	OTHER \$COST	CONTRACT \$COST	GFM/GFS \$COST	TOTAL VARIABLE \$COST	TOTAL \$COST		
11	135429	1147084	2179976	2339386	2417917	29458	1072	6967809	8114893		
12	13482	109404	234881	150150	272043	662	7	657743	767147		
13	30639	228330	577859	581401	637645	79050	104	1876059	2104389		
14	70482	577200	1261946	460611	1167724	0	0	2890281	3467481		
23	132384	1168270	2605779	3275511	2013833	1421721	105683	9422527	10590797		
25	0	0	0	0	0	0	0	0	0		
41	3977	36623	78722	253375	71180	27422	1441	432140	468763		
42	18570	172443	370219	1235214	319352	109712	2433	2036930	2209373		
44	307	2567	6387	8188	5246	0	0	19821	22388		
45	2179	17994	46077	247485	50063	23029	377	367037	385025		
46	13855	110355	219478	586391	254273	0	0	1060142	1170497		
47	1855	16154	35492	127449	26218	6552	100	195811	211965		
49	513	4470	10135	17016	11169	0	0	38320	42790		
51	11235	99094	237402	166623	180043	52702	4166	640936	740030		
52	5725	43927	122132	57836	85163	19733	855	285739	328766		
55	74	621	1624	595	1083	455	16	3773	4394		
58	680	6160	14366	3466	10264	-4	-19	28073	34233		
61	13872	128734	292266	352633	255439	28276	322	928936	1057670		
63	457	4397	9229	533	7278	0	0	17940	21437		
64	76	1549	1094	1137	0	0	0	3780	4534		
65	2220	21477	46983	18416	33366	1286	62	100113	121590		
69	1464	14839	30750	15196	35768	164	28	81906	96745		
71	252	2037	5631	1232	3419	1723	19	12024	14061		
72	491	4438	9988	3892	8172	7884	94	30330	34468		
73	34718	287203	724013	509597	635913	856496	116668	2842687	3129890		
74	27302	234916	525220	785752	518130	134298	775	1964175	2199091		
75	11082	99788	209363	70670	178751	540419	52509	1051712	1151500		
76	28283	267183	571301	654007	407086	1125826	17520	2775740	3042923		
77	12046	113218	250810	3463974	209235	1494	1072	3926585	4039803		
93	0	0	0	0	0	0	0	0	0		
95	1607	12338	33254	11769	27515	0	0	72538	84876		
97	0	0	0	0	0	0	0	0	0		
99	835	7333	16251	3816	14039	589158	9215	632479	639812		
WUC TOTAL	576091	4938451	10729083	15403278	9858464	5057536	314519	41362880	46301331		
REFERENCE THE REPORT FORWARD OF THIS REPORT FOR IDENTITY OF SPECIFIC MDS. TMS. NSN. WBS. WPC. WUC INCLUDED											

a. WBS Group Code. Identifies the work breakdown structure (WBS) for the aircraft or missile. (See Attachment 3 for definitions of the WBS group codes.)

b. WUC. The two-digit system-level work unit code for the repairable items used on the aircraft MDS. (See Attachment 3 for definitions of the WUC codes.) The WUC information is not displayed in a missile report.

c. Organic Man-hours. The organic depot repair labor man-hours expended during the repair in the fiscal year. The man-hours include any direct civilian labor hours, other direct civilian labor hours, direct military labor hours, and other direct military labor hours.

d. Organic Fixed Cost. The fixed portion of the organic depot on-equipment repair cost in the fiscal year. This cost is the funded General and Administrative overhead cost.

e. Organic Labor Cost. The organic depot labor costs expended in the fiscal year. This cost includes any direct civilian labor cost, other direct civilian labor cost, direct military labor cost, and other direct military labor cost.

f. Organic Material Cost. The organic depot repair material cost expended in the fiscal year. This cost is the funded direct expense material cost.

g. Organic Other Cost. The organic depot repair other costs expended in the fiscal year. This cost includes any funded other direct cost, funded operations overhead cost, and funded organic maintenance support costs.

h. Contract Cost. The contract depot repair cost expended in the fiscal year. This cost includes any contract and interservice cost.

i. GFM/GFS Cost. The government furnished contract depot repair cost expended in the fiscal year. This cost includes any government furnished expense material and funded government furnished services.

j. Total Variable Cost. The total variable depot repair costs expended in the fiscal year. This cost is the sum of the labor cost, material cost, other cost, contract cost, and GFM/GFS cost fields.

k. Total Cost. The total depot repair costs expended in the fiscal year. This cost is the sum of the fixed cost, labor cost, material cost, other cost, contract cost, and GFM/GFS cost fields.

3.7.7. Detail Engine Cost Report (PCN: Q-H036C-E01-IR-8IR). *Weapon System Cost Retrieval System, FYxx Detail Engine Cost Summary, FYxx Costs in FYnn Dollars.* The intent of this report is to provide detailed engine depot repair and condemnation cost information, on an item-by-item basis, for each reparable item used on an engine, engine module, engine gearbox, or auxiliary power unit for a fiscal year. A depot repair rate, depot repair cost rate, condemnation rate, and condemnation cost rate are calculated for each item. This report has two parts. Costs can be displayed in either then-year dollars or constant-year dollars. This product's Engine Report Foreword identifies the engine costs that are specifically included or excluded in the report.

3.7.7.1. Q-H036C-E01-IR-8IR Part 1: Component Cost Summary. This part of the report displays the *off-equipment* depot repair and condemnation costs, in NSN sequence, for each reparable item used on the TMS. Multiple report lines may be displayed for the same item, with each report line displaying costs by different work performance category. Multiple report lines for the same item appear together on the report in ascending WPC sequence. When multiple report lines for the same item are displayed, an NSN total line is also displayed showing the NSN total condemnation cost rate and NSN total depot repair cost rate. Reference Chapter 4 for a complete description of all computations. Some computations applicable to this report are shown below for quick reference.

a. Stock Number Condemnation Rate for Aircraft Engine:

$$\text{Condemnation Rate} / 1000 \text{ EFH} = \frac{(\text{Base Cond} + \text{Depot Cond})(\text{NSN Factor}_{\text{efh}})}{\text{EFH}} \times 1000$$

where

Base Cond = quantity of the stock number condemned at base level

Depot Cond = quantity of the stock number condemned at depot level

$$\text{NSN Factor}_{\text{efh}} = \frac{\text{Total operating hours for NSN on this TMS-application}}{\text{Total operating hours for NSN across all applications}}$$

EFH = TMS flying hours in the fiscal year

b. Stock Number Condemnation Rate for Missile Engine:

$$\text{Condemnation Rate} / \text{Missile Engine} = \frac{(\text{Base Cond} + \text{Depot Cond})(\text{NSN Factor}_{\text{einv}})}{\frac{\text{TMSINV}}{12}}$$

where

Base Cond = quantity of the stock number condemned at base level

Depot Cond = quantity of the stock number condemned at depot level

$$\text{NSN Factor}_{\text{einv}} = \frac{\text{Total inventory months for NSN on this TMS-application}}{\text{Total inventory months for NSN across all applications}}$$

TMSINV = TMS inventory months in the fiscal year

c. Stock Number Condemnation Cost Rate for Aircraft Engine:

$$\text{\$ Condemnation} / \text{EFH} = \frac{(\text{Condemnation Rate} / 1000 \text{ EFH})(\text{NSN Unit Price})}{1000}$$

d. Stock Number Condemnation Cost Rate per Missile Engine:

$$\text{\$ Condemnation} / \text{Missile Engine} = (\text{Condemnation Rate} / \text{Missile Engine})(\text{NSN Unit Price})$$

e. Stock Number Repair Rate for Aircraft Engine:

$$\begin{aligned} \text{Repair Rate} / 1000 \text{ EFH} &= \frac{(\text{PQC}/\text{Item}/\text{WPC})(\text{NSN Factor}_{\text{efh}})}{\text{EFH}} \times 1000 \\ &= \text{quantity of the item repaired} / \text{WPC} / 1000 \text{ EFH} \end{aligned}$$

f. Stock Number Repair Rate for Missiles Engine:

$$\begin{aligned} \text{Repair Rate} / \text{Missile Engine} &= \frac{(\text{PQC}/\text{Item}/\text{WPC})(\text{NSN Factor}_{\text{einv}})}{\frac{\text{TMSINV}}{12}} \\ &= \text{quantity of the item repaired} / \text{WPC} / \text{TMS} \end{aligned}$$

g. Stock Number Average Cost to Repair:

$$\text{Average Cost to Repair} = \frac{\text{Total repair cost}/\text{Item}/\text{WPC}}{\text{PQC}/\text{Item}/\text{WPC}}$$

h. Stock Number Repair Cost Rate for Aircraft Engine:

$$\begin{aligned} \text{\$ Repair} / \text{EFH} &= \frac{(\text{Total repair cost}/\text{Item}/\text{WPC})(\text{NSN Factor}_{\text{efh}})}{\text{EFH}} \\ &= \text{repair cost}/\text{Item}/\text{WPC}/\text{EFH} \end{aligned}$$

$$\begin{aligned} \text{\$ Repair} / \text{Missile Engine} &= \frac{(\text{Total repair cost}/\text{Item}/\text{WPC})(\text{NSN Factor}_{\text{einv}})}{\frac{\text{TMSINV}}{12}} \\ &= \text{repair cost}/\text{Item}/\text{WPC}/\text{Missile Engine} \end{aligned}$$

Figure 3.13. Detail Engine Cost Report
Part 1: Component Cost Summary

FMP	TF0033102 ENGINE- ENG FHRS-	TF0033102 298116	WEAPON SYSTEM COST RETRIEVAL SYSTEM FY91 DETAIL ENGINE COST SUMMARY FY91 COSTS IN FY91 DOLLARS PART 1: COMPONENT COST SUMMARY						12/17/99	Q-H036C-E01-IR-8IR	PAGE	1
3511917												
(a) MASTER STOCK NO (NSN)	(b) NSN NOMENCLATURE	(c) APPL TYPE	(d) NSN APPLICATION	(e) NSN QPA %	(f) NSN APPL	(g) NSN LAST BUY UNIT PRICE	(h) # NSN COND/ 1000 EFH	(i) NSN COND \$/EFH	(j) # NSN REPAIRED /1000 EFH	(k) NSN AVG \$/REPAIR	(l) NSN D/M \$/EFH	(m) WPC
2840000035607RV	HSG NR5BRG	TMS	TF0033102	1	100	\$1419.34	0.0018	\$.003	.0018	\$547.75	\$.001	A
2840000035608RV	SPT =5 BRG	TMS	TF0033102	1	100	\$1417.62	0.0100	\$.014	.0755	\$339.45	\$.026	A
2840000192220RV	SEAL 3 BRG	TMS	TF0033102	1	100	\$477.22	0.0000	\$.000	.1299	\$175.00	\$.023	A
28400000214994RV	2 SPT=5BRG					\$9841.65		\$.016			\$.098	
28400000214994RV	2 SPT=5BRG	TMS	TF0033102	1	100	\$9841.65	0.0016	\$.016	.1001	\$981.28	\$.098	A
28400000214994RV	2 SPT=5BRG	TMS	TF0033102	1	100	\$9841.65	0.0000	\$.000	.0011	\$126.50	\$.000	G
2840000551224RV	SUPRT BEAR	TMS	TF0033102	1	100	\$6174.85	0.0029	\$.018	.1341	\$1382.04	\$.185	A
2840000640515RV	3SPACER14S	TMS	TF0033102	1	100	\$1419.34	0.0438	\$.062	.0000	\$.00	\$.000	
2840000669911RV	3 SHROUD	TMS	TF0033102	1	100	\$622.12	0.0200	\$.012	.0000	\$.00	\$.000	
2840000752660RV	3SEAL3S1NR	TMS	TF0033102	1	100	\$1264.66	0.0296	\$.037	.0365	\$837.63	\$.031	A
2840000792509RV	RING TURB4	TMS	TF0033102	1	100	\$1230.85	0.0126	\$.015	.0396	\$202.82	\$.008	A
2840000880474RV	(3) HUB N1	TMS	TF0033102	1	100	\$13857.22	0.0114	\$.158	.2417	\$22.66	\$.005	J
2840000896150RV	2ROTOR LST	TMS	TF0033102	1	100	\$109547.00	0.0000	\$.000	.1199	\$13729.13	\$1.646	A
2840001151606RV	VANE SHR4	TMS	TF0033102	2	100	\$8168.80	0.0118	\$.097	.1132	\$692.14	\$.078	A
2840001174891RV	2 CASE DIF					\$79484.66		\$1.450			\$.761	
2840001174891RV	2 CASE DIF	TMS	TF0033102	1	100	\$79484.66	0.0182	\$1.450	.1573	\$4837.99	\$.761	A
2840001174891RV	2 CASE DIF	TMS	TF0033102	1	100	\$79484.66	0.0000	\$.000	.0023	\$97.00	\$.000	G
2840001183288RV	3/SPACR#13	TMS	TF0033102	1	100	\$1875.63	0.0388	\$.073	.0000	\$.00	\$.000	
2840001373889RV	3SPACER TU	TMS	TF0033102	1	100	\$1130.94	0.0132	\$.015	.0109	\$161.00	\$.002	A
2840001507416RV	1BLADESETT	TMS	TF0033102	65	100	\$156.25	1.8522	\$.289	11.3408	\$38.61	\$.438	A
2840001534090RV	SEAL TURB1	TMS	TF0033102	1	100	\$980.56	0.0373	\$.037	.2182	\$478.44	\$.104	A
2840001662356RV	(3)BLD #12	TMS	TF0033102	75	100	\$31.29	0.7905	\$.025	6.8274	\$6.00	\$.041	A
2840001662357RV	(3)BLD #13	TMS	TF0033102	75	100	\$46.16	0.8450	\$.039	9.1135	\$6.00	\$.055	A
2840001690191RV	CLAMP	TMS	TF0033102	8	100	\$787.21	0.0010	\$.001	.7105	\$352.00	\$.250	A
2840001763734RV	3 DISK 7					\$6272.70		\$.118			\$.016	
2840001763734RV	3 DISK 7	TMS	TF0033102	1	100	\$6272.70	0.0189	\$.118	.0654	\$174.16	\$.011	A
2840001763734RV	3 DISK 7	TMS	TF0033102	1	100	\$6272.70	0.0000	\$.000	.1773	\$26.80	\$.005	J
2840002224164RV	(3)BLD #11	TMS	TF0033102	75	100	\$33.36	0.5992	\$.020	3.7524	\$6.04	\$.023	A
2840002263900RV	RING TURB3	TMS	TF0033102	1	100	\$822.71	0.0116	\$.010	.0536	\$671.78	\$.036	A
2840002399737RV	2ROTOR HST					\$34164.71		\$.000			\$.264	
2840002399737RV	2ROTOR HST	TMS	TF0033102	1	100	\$34164.71	0.0000	\$.000	.0905	\$2899.57	\$.262	A
2840002399737RV	2ROTOR HST	TMS	TF0033102	1	100	\$34164.71	0.0000	\$.000	.0018	\$1106.00	\$.002	G
2840002437740RV	2 DUCT CC					\$16122.48		\$.037			\$.120	
2840002437740RV	2 DUCT CC	TMS	TF0033102	1	100	\$16122.48	0.0023	\$.037	.0991	\$1197.54	\$.119	A
2840002437740RV	2 DUCT CC	TMS	TF0033102	1	100	\$16122.48	0.0000	\$.000	.0014	\$439.33	\$.001	G
2840002560880RV	VANE 1STG	TMS	TF0033102	16	100	\$134.42	17.5871	\$2.364	.0000	\$.00	\$.000	
2840002560894RV	VANE 1 STG	TMS	TF0033102	21	100	\$134.42	0.0000	\$.000	.8428	\$21.90	\$.018	A
2840002560928RV	VANE 1 STG	TMS	TF0033102	16	100	\$134.42	0.0000	\$.000	.9950	\$21.00	\$.021	A
2840002561016RV	VANE 1 STG	TMS	TF0033102	10	100	\$134.42	0.0000	\$.000	1.0520	\$21.00	\$.022	A

a. Master Stock Number. Identifies the reparable item master stock number or subgroup master stock number used on the TMS identified in the "NSN Application" field. This item may appear several times on the report. A report line is generated for each different work performance category (WPC) of repair on the item. On this report multiple report lines for the same item appear together in ascending WPC sequence.

b. NSN Nomenclature. Descriptive nomenclature for the stock-numbered item.

c. Application Type. Identifies the type of engine. If the application type value is "TMS" the "NSN Application" shown is an engine. If the application type value is "APU" the "NSN Application" shown is an auxiliary power unit. If the "NSN Application" type value is "MOD" the "NSN Application" shown is an engine module. If the application type value is "BOX" the "NSN Application" shown is an engine gearbox.

d. NSN Application. The engine, module, gearbox, or APU on which the stock-numbered item is used.

e. NSN Quantity Per Application (QPA). Quantity of the stock-numbered item used on the "NSN Application".

f. NSN Percent Application. The percentage of the "NSN application" inventory that use the stock-numbered item.

g. NSN Unit Price. Unit cost of the stock-numbered item. This is the price paid on the last buy of the item.

h. Condemnation Rate. The rate includes both base and depot condemnations of the stock-numbered item. If the engine is installed on an aircraft, this field contains the quantity of the item condemned per 1,000 engine flying hours in the fiscal year. If the engine is installed

on missiles, this field contains the quantity of the item condemned per engine in the fiscal year.

i. Condemnation Cost Rate. If the engine is installed on aircraft, this field contains the stock-numbered item's condemnation cost per engine flying hour in the fiscal year. If the engine is installed on missiles, this field contains the stock-numbered item's condemnation cost per engine in the fiscal year.

j. Repair Rate. If the engine is installed on aircraft, this field contains the quantity of the item repaired per 1,000 engine flying hours in the fiscal year by work performance category. If the engine is installed on missiles, this field contains the quantity of the item repaired per engine in the fiscal year by work performance category. (See note below.)

k. Average Cost to Repair. This is the average cost to repair the stock-numbered item in the fiscal year by work performance category. (See note below.)

l. Repair Cost Rate. If the engine is installed on an aircraft, this field contains the stock-numbered item's depot repair cost per engine flying hour in the fiscal year by work performance category. If the engine is installed on missiles, this field contains the stock-numbered item's depot repair cost per engine in the fiscal year by work performance category.

m. WPC. The work performance category for the repair. See Attachment 2 for definitions of the work performance categories.

Note: The "PQC" value is very often reported incorrectly through the AFMC maintenance accounting systems. We recommend that you **do not use** this value or any other values derived from the "PQC" value.

3.7.7.2. Q-H036C-E01-IR-8IR Part 2: Overhaul Cost

Summary. This part of the report displays the *on-equipment* depot maintenance overhaul costs for the engine by work performance category. Reference Chapter 4 for a complete description of all computations. Some computations applicable to this report are shown below for quick reference.

a. TMS Repair Rate for Aircraft Engines:

$$\begin{aligned} \text{Repair Rate / 1000 EFH} &= \frac{(\text{PQC/Application/WPC})(\text{OVHL FACTOR}_{\text{efh}})}{\text{EFH}} \times 1000 \\ &= \text{quantity of the application repaired / WPC / 1000 EFH} \end{aligned}$$

where:

application = TMS, APU, MOD, or BOX

$$\text{OVHL FACTOR}_{\text{efh}} = \frac{\text{Total operating hours for the application on the TMS}}{\text{Total application operating hours}}$$

EFH = TMS flying hours in the fiscal year

b. TMS Repair Rate for Missile Engines:

$$\begin{aligned} \text{Repair Rate / Missile Engine} &= \frac{(\text{PQC/Application/WPC})(\text{OVHL FACTOR}_{\text{einv}})}{\frac{\text{TMSINV}}{12}} \\ &= \text{quantity of applications repaired / WPC / TMS} \end{aligned}$$

where:

application = TMS, APU, MOD, BOX

$$\text{OVHL FACTOR}_{\text{einv}} = \frac{\text{Total inventory months for the application on the TMS}}{\text{Total application inventory months}}$$

TMSINV = TMS inventory months in the fiscal year

c. TMS Average Cost to Repair:

$$\text{Average Cost to Repair} = \frac{\text{Total repair cost / Application / WPC}}{\text{PQC / Application / WPC}}$$

where:

application = TMS, APU, MOD, or BOX

d. TMS Repair Cost Rate for Aircraft Engines:

$$\begin{aligned} \$ \text{ Repair / EFH} &= \frac{(\text{Total repair cost / Application / WPC})(\text{OVHL FACTOR}_{\text{efh}})}{\text{EFH}} \\ &= \text{repair cost / Application / WPC / EFH} \end{aligned}$$

where:

application = TMS, APU, MOD, or BOX

$$\text{OVHL FACTOR}_{\text{efh}} = \frac{\text{Total operating hours for the application on the TMS}}{\text{Total application operating hours}}$$

EFH = TMS flying hours in the fiscal year

e. TMS Repair Cost Rate for Missile Engines:

$$\begin{aligned} \$ \text{ Repair / Missile Engine} &= \frac{(\text{Total repair cost / Application / WPC})(\text{OVHL FACTOR}_{\text{einv}})}{\frac{\text{TMSINV}}{12}} \\ &= \text{repair cost / Application / WPC / Missile Engine} \end{aligned}$$

where:

application = TMS, APU, MOD, or BOX

$$\text{OVHL FACTOR}_{\text{einv}} = \frac{\text{Total inventory months for the application on the TMS}}{\text{Total application inventory months}}$$

TMSINV = TMS inventory months in the fiscal year

Figure 3.14. Detail Engine Cost Report Part 2: Overhaul Cost Summary

FMP	TF0033102 ENGINE- ENG FHRS-	TF0033102 298116	WEAPON SYSTEM COST RETRIEVAL SYSTEM 12/17/99 Q-H036C-E01-IR-8IR PAGE 13						
			FY91 DETAIL ENGINE COST SUMMARY						
			FY91 COSTS IN FY91 DOLLARS						
			PART 2: OVERHAUL COST SUMMARY						
a	b	c	d	e	f	g	h	i	j
APPL TYPE	OVERHAULED ENGINE	QTY OVHL	# REPAIRED /1000 EFH	AVERAGE \$/REPAIR	WPC	D/M \$/EFH	DIR MIL LAB HRS	DIR CIV LAB HRS	AVERAGE HOURS PER REPAIR
TMS	TF0033102	12.0	.0403	\$78154.50	A	\$3.146	0	13426	1118.8
TMS	TF0033102	12.0	.0403	\$47581.92	B	\$1.915	0	10763	896.9
TMS	TF0033102	1.0	.0034	\$347.00	E	\$.001	0	7	7.0
TMS	TF0033102	2312.0	7.7554	\$119.42	I	\$.926	6037	0	2.6
TMS	TF0033102	1000.0	3.3544	\$46.42	N	\$.156	1098	0	1.1
			TF0033102	TOTAL		\$6.14	7135	24196	

a. Application Type. Identifies the type of engine. If the application type value is “TMS” the “Overhauled Engine” shown is an engine. If the application type value is “APU” the “Overhauled Engine” shown is an auxiliary power unit. If the application type value is “MOD” the “Overhauled Engine” shown is an engine module. If the application type value is “BOX” the “Overhauled Engine” shown is an engine gearbox.

b. Overhauled Engine. Identifies the engine, auxiliary power unit, engine module, or engine gearbox undergoing on-equipment overhaul.

c. Quantity Overhauled. The number of on-equipment depot maintenance overhauls completed on the “Overhauled Engine” in the fiscal year by work performance category. (See note below.)

d. Repair Rate. If the engine is installed on aircraft, this field contains the quantity of on-equipment repairs per 1,000 engine flying hours in the fiscal year by work performance category. If the engine is installed on missiles, this field contains the quantity of on-equipment repairs per engine in the fiscal year by work performance category. (See note below.)

e. Average Cost to Repair. The average cost to repair the engine in the fiscal year by work performance category. (See note below.)

f. WPC. The work performance category for the repair. See Attachment 2 for definitions of the work performance categories.

g. Repair Cost Rate. If the engine is installed on aircraft, this field contains the on-equipment depot maintenance cost per engine flying hour in the fiscal year by work performance category. If the engine is installed on missiles, this field contains the on-equipment depot maintenance cost per engine in the fiscal year by work performance category.

h. Direct Military Labor Hours. This field contains the organic direct military labor hours and organic other direct military labor hours expended on the repair in the fiscal year by work performance category.

i. Direct Civilian Labor Hours. This field contains the organic direct civilian labor hours and organic other direct civilian labor hours expended on the repair in the fiscal year by work performance category.

j. Average Hours Per Repair. This field contains the average number of organic labor hours (direct military and direct civilian) per repair in the fiscal year by work performance category. (See note below.)

Note: The “QTY OVHL” value is very often reported incorrectly through the AFMC maintenance accounting systems. We recommend that you **do not use** this value or any other values derived from the “QTY OVHL” value.

3.7.8. Engine Condemnation Cost Ranking Report (PCN: Q-H036C-E02-IR-8IR). *Weapon System Cost Retrieval System, FYxx Engine Condemnation Cost Ranking, FYxx Costs In FYnn Dollars.* The purpose of this report is to identify and rank the stock-numbered items that are the high condemnation cost drivers on the engine or auxiliary power unit (APU) in the fiscal year. The report ranks the condemnation cost rate for stock-numbered items in high-to-low sequence for the fiscal year. For an engine installed on aircraft, the cost ranking is based on the NSN condemnation cost per engine flying hour; for an engine installed on missiles, the ranking is based on the NSN condemnation cost per engine. Costs can be displayed in either then-year dollars or constant-year dollars. This product's Engine Report Foreword identifies the engine costs that are specifically included or excluded in the report. Reference Chapter 4 for a complete description of all computations. Some computations applicable to this report are shown below for quick reference.

a. Stock Number Condemnation Rate for Aircraft Engines:

$$\text{Condemnation Rate}/1000 \text{ EFH} = \frac{(\text{Base Cond} + \text{Depot Cond})(\text{NSN Factor}_{\text{efh}})}{\text{EFH}} \times 1000$$

where:

Base Cond = quantity of the stock number condemned at base level

Depot Cond = quantity of the stock number condemned at depot level

$\text{NSN Factor}_{\text{efh}} = \frac{\text{Total operating hours for NSN on this TMS-application}}{\text{Total operating hours for NSN across all applications}}$

EFH = TMS flying hours in the fiscal year

b. Stock Number Condemnation Rate for Missile Engines:

$$\text{Condemnation Rate}/\text{Missile Engine} = \frac{(\text{Base Cond} + \text{Depot Cond})(\text{NSN Factor}_{\text{einv}})}{\frac{\text{TMSINV}}{12}}$$

where:

Base Cond = quantity of the stock number condemned at base level

Depot Cond = quantity of the stock number condemned at depot level

$\text{NSN Factor}_{\text{einv}} = \frac{\text{Total inventory months for NSN on this TMS-application}}{\text{Total inventory months for NSN across all applications}}$

TMSINV = TMS inventory months in the fiscal year

c. Stock Number Condemnation Cost Rate for Aircraft Engines:

$$\text{\$ Condemnation}/\text{EFH} = \frac{(\text{Condemnation Rate}/1000 \text{ EFH})(\text{NSN Unit Price})}{1000}$$

d. Stock Number Condemnation Cost Rate for Missile Engines:

$$\text{\$ Condemnation}/\text{Missile Engine} = (\text{Condemnation Rate}/\text{Missile Engine})(\text{NSN Unit Price})$$

Figure 3.15. Engine Condemnation Cost Ranking Report

FMP	TF0033102 ENGINE - ENG FHRS-	TF0033102 298116	WEAPON SYSTEM COST RETRIEVAL SYSTEM FY91 ENGINE CONDEMNATION COST RANKING FY91 COSTS IN FY91 DOLLARS				12/17/99	Q-H036C-E02-IR-81R	PAGE 1
(a) RANK	(b) MASTER STOCK NO (NSN)	(c) NSN NOMENCLATURE	(d) APPL TYPE	(e) NSN APPLICATION	(f) NSN QPA	(g) NSN % APPL	(h) NSN LAST BUY UNIT PRICE	3511917 (i) # NSN COND /1000 EFH	(j) NSN COND \$/EFH
1	2840004399236RV	(3)BLD SET	TMS	TF0033102	16	100	\$3424.75	0.6934	\$2.375
2	2840002560880RV	VANE 1STG	TMS	TF0033102	16	100	\$134.42	17.5871	\$2.364
3	2840004427112RV	(2)IGVCASE	TMS	TF0033102	1	100	\$70944.67	0.0274	\$1.941
4	2840006228310RV	3DISK T 3S	TMS	TF0033102	1	100	\$16995.00	0.1003	\$1.704
5	2840008081072RV	3) 2-BLADE	TMS	TF0033102	16	100	\$3424.75	0.4766	\$1.632
6	2840001174891RV	2 CASE DIF	TMS	TF0033102	1	100	\$79484.66	0.0182	\$1.450
7	2840ND057232HRV	OC DISK	TMS	TF0033102	1	100	\$5253.83	0.2613	\$1.373
8	2840011603218RV	VANE/SD#15	TMS	TF0033102	1	100	\$8110.30	0.1386	\$1.124
9	2840004399237RV	3BLADESET2	TMS	TF0033102	57	100	\$391.00	2.4504	\$.958
10	2840008081063RV	3) 3-BLADE	TMS	TF0033102	1	100	\$3424.75	0.2782	\$.953
11	2915011606392RV	MANIFOLD R	TMS	TF0033102	1	100	\$23072.00	0.0297	\$.685
12	2915011620920RV	1MANIFD LH	TMS	TF0033102	1	100	\$15450.00	0.0432	\$.668
13	2840011649085RV	HOUSING	TMS	TF0033102	1	100	\$8987.51	0.0594	\$.534
14	2840005296202RV	3BLADESET2	TMS	TF0033102	57	100	\$391.40	1.2157	\$.476
15	2840011603215RV	VANE/SD#12	TMS	TF0033102	1	100	\$7421.15	0.0627	\$.465
16	2840011603198RV	DISK T 4S	TMS	TF0033102	1	100	\$10609.00	0.0436	\$.463
17	2840004399249RV	3BLADESETT	TMS	TF0033102	54	100	\$185.40	2.2163	\$.411
18	2840008018266RV	3DISK TUR2	TMS	TF0033102	1	100	\$15347.00	0.0251	\$.385
19	2840009510769RV	3HUB RE N1	TMS	TF0033102	1	100	\$7103.91	0.0533	\$.379
20	2915009185723RV	1MANIFD RH	TMS	TF0033102	1	100	\$23072.00	0.0159	\$.366
21	3110002770899RU	BEARING 5	TMS	TF0033102	1	100	\$1035.60	0.3523	\$.365
22	2840005202592RV	2SHR TURB4	TMS	TF0033102	1	100	\$2673.88	0.1224	\$.327
23	2840008067721RV	(3)DISK#10	TMS	TF0033102	1	100	\$4090.95	0.0798	\$.327
24	2840008067799RV	CASE TURB	TMS	TF0033102	1	100	\$11824.40	0.0266	\$.315
25	2840009944730RV	2 SHR TUR3	TMS	TF0033102	1	100	\$2389.60	0.1313	\$.314
26	2840008056464RV	(3)DISK#13	TMS	TF0033102	1	100	\$3031.58	0.1026	\$.311
27	2840001507416RV	1BLADESETT	TMS	TF0033102	65	100	\$156.25	1.8522	\$.289
28	2840007857198RV	2SHR TURB2	TMS	TF0033102	1	100	\$2469.94	0.1110	\$.274
29	2840008067734RV	(3)DISK#12	TMS	TF0033102	1	100	\$3141.50	0.0867	\$.272
30	2840009873757RV	3BLADESET4	TMS	TF0033102	40	100	\$185.40	1.4503	\$.269
31	3110008682742RV	BRNG 4 1-2	TMS	TF0033102	1	100	\$638.60	0.4153	\$.265
32	2840008168555RV	(3)DISK#11	TMS	TF0033102	1	100	\$3271.92	0.0775	\$.254
33	2840011603217RV	VANE/SD#14	TMS	TF0033102	1	100	\$5096.81	0.0495	\$.252
34	2840011606498RV	(3)DISK#15	TMS	TF0033102	1	100	\$5270.51	0.0433	\$.228
35	2840010031000RV	VANE/SHRD8	TMS	TF0033102	2	100	\$3453.03	0.0649	\$.224

a. Rank. Condemnation cost ranking for the stock-numbered item on the engine in the fiscal year. If the engine is installed on aircraft, the ranking is based on the stock-numbered item's cost per engine flying hour in high-to-low sequence. If the engine is installed on missiles, the cost ranking is based on the stock numbered item's cost per engine, in high-to-low sequence.

b. Stock Number. Identifies the reparable item master or subgroup master stock number used on the TMS identified in the "NSN Application" field.

c. NSN Nomenclature. Descriptive nomenclature for the stock-numbered item.

d. Application Type. Identifies the engine type. If the application type value is "TMS" the "NSN Application" shown is an engine. If the application type value is "APU" the "NSN Application" shown is an auxiliary power unit. If the application type value is "MOD" the "NSN Application" shown is an engine module. If the application type value is "BOX" the "NSN Application" shown is an engine gearbox.

e. NSN Application. The engine, module, gearbox, or APU on which the stock-numbered item is used.

f. NSN Quantity Per Application (QPA). Quantity of this stock-numbered item used on the "NSN Application".

g. NSN Percent Application. The percentage of the "NSN Application" inventory that uses the stock-numbered item.

h. NSN Unit Price. Unit price of the stock-numbered item. This is the price paid on the last buy of the item.

i. NSN Condemnation Rate. The rate includes both base and depot condemnations of the stock-numbered item. If the engine is installed on aircraft, this field contains the quantity of the item condemned per 1,000 engine flying hours in the fiscal year. If the engine is installed on missiles, this field contains the quantity of the item condemned per engine in the fiscal year.

j. NSN Condemnation Cost Rate. If the engine is installed on aircraft, this field contains the stock-numbered item's condemnation cost per engine flying hour in the fiscal year. If the engine is installed on missiles, this field contains the stock-numbered item's condemnation cost per engine in the fiscal year.

3.7.9. Engine Depot Maintenance Cost Ranking Report (PCN: Q-H036C-E03-IR-8IR). *Weapon System Cost Retrieval System, FYxx Engine Depot Maintenance Cost Ranking, FYxx Cost in FYnn Dollars.* The intent of this report is to identify and rank the stock-numbered items that are the high depot repair cost drivers on the engine or auxiliary power unit (APU) in the fiscal year. This report ranks the cost of repairing stock-numbered items, in high-to-low sequence, for the fiscal year. This report displays off-equipment depot repair costs only, it does not display on-equipment depot repair cost. Multiple report lines may be displayed for the same item, with each report line displaying costs by different work performance category (WPC). The individual WPC repair cost rates are summed to get the NSN's total repair cost per engine flying hour (or cost per missile engine). Multiple report lines for the same item will appear together on the report. For an engine installed on aircraft, the ranking is based on the NSN's total repair cost per engine flying hour; for engine installed on missiles, the ranking is based on the NSN's total repair cost per engine. Costs can be displayed in either then-year dollars or constant-year dollars. This product's engine Report Foreword identifies the engine costs that are specifically included or excluded in the report. Reference Chapter 4 for a complete description of all computations. Some computations applicable to this report are shown below for quick reference.

a. Stock Number Repair Rate for Aircraft Engines:

$$\begin{aligned}\text{Repair Rate / 1000 EFH} &= \frac{(\text{PQC/Item/WPC})(\text{NSN Factor}_{\text{efh}})}{\text{EFH}} \times 1000 \\ &= \text{quantity of the item repaired/WPC/1000 EFH}\end{aligned}$$

where:

$$\begin{aligned}\text{NSN Factor}_{\text{efh}} &= \frac{\text{Total operating hours for the NSN on this TMS-application}}{\text{Total operating hours for the NSN across all applications}} \\ \text{EFH} &= \text{TMS flying hours in the fiscal year}\end{aligned}$$

b. Stock Number Repair Rate for Missile Engines:

$$\begin{aligned}\text{Repair Rate / Missile Engine} &= \frac{(\text{PQC/Item/WPC})(\text{NSN Factor}_{\text{einv}})}{\frac{\text{TMSINV}}{12}} \\ &= \text{quantity of the item repaired/WPC/TMS}\end{aligned}$$

where:

$$\begin{aligned}\text{NSN Factor}_{\text{einv}} &= \frac{\text{Total inventory months for the NSN on this TMS-application}}{\text{Total inventory months for the NSN across all applications}} \\ \text{TMSINV} &= \text{TMS inventory months in the fiscal year}\end{aligned}$$

c. Stock Number Average Cost to Repair:

$$\text{Average Cost to Repair} = \frac{\text{Total repair cost/Item/WPC}}{\text{PQC/Item/WPC}}$$

d. Stock Number Repair Cost Rate for Aircraft Engines:

$$\begin{aligned}\$ \text{Repair/EFH} &= \frac{(\text{Total repair cost/Item/WPC})(\text{NSN Factor}_{\text{efh}})}{\text{EFH}} \\ &= \text{repair cost/Item/WPC/EFH}\end{aligned}$$

where:

$$\begin{aligned}\text{NSN Factor}_{\text{efh}} &= \frac{\text{Total operating hours for the NSN on this TMS-application}}{\text{Total operating hours for the NSN across all applications}} \\ \text{EFH} &= \text{TMS flying hours in the fiscal year}\end{aligned}$$

e. Stock Number Repair Cost Rate for Missile Engines:

$$\begin{aligned}\$ \text{Repair/Missile Engine} &= \frac{(\text{Total repair cost/Item/WPC})(\text{NSN Factor}_{\text{einv}})}{\frac{\text{MDSINV}}{12}} \\ &= \text{repair cost/Item/WPC/Missile Engine}\end{aligned}$$

where:

$$\begin{aligned}\text{NSN Factor}_{\text{einv}} &= \frac{\text{Total inventory months for the NSN on this TMS-application}}{\text{Total inventory months for the NSN across all applications}} \\ \text{TMSINV} &= \text{TMS inventory months in the fiscal year}\end{aligned}$$

Figure 3.16. Engine Depot Maintenance Cost Ranking Report

FMP	TF0033102 ENGINE- ENG FHRS-	TF0033102 298116		WEAPON SYSTEM COST RETRIEVAL SYSTEM FY91 ENGINE DEPOT MAINT COST RANKING FY91 COSTS IN FY91 DOLLARS	12/17/99	Q-H036C-E03-IR-8IR	PAGE	1			
a RANK	b MASTER STOCK NO (NSN)	c NSN NOMENCLATURE	d APPL TYPE	e NSN APPLICATION	f NSN OPA	g NSN % APPL	h NSN LAST BUY UNIT PRICE	i # NSN REP /1000 EFH	j NSN AVG \$/REPAIR	k NSN D/M \$/EFH	l WPC
1	2840011605511RV 2840011605511RV 2840011605511RV	COMPRESSOR COMPRESSOR COMPRESSOR	TMS TMS TMS	TF0033102 TF0033102	1 1 1	100 100 100	\$146251.89 \$146251.89 \$146251.89	.1782 .0132	\$11894.20 \$550.75	\$2.127 \$2.120 \$.007	A A G
2	2915011611650RV 2915011611650RV 2915011611650RV	1FUEL CNTL 1FUEL CNTL 1FUEL CNTL	TMS TMS TMS	TF0033102 TF0033102	1 1 1	100 100 100	\$23185.00 \$23185.00 \$23185.00	.2872 .0297	\$7007.91 \$1263.89	\$2.050 \$2.012 \$.038	A A G
3	2840011603158RV 2840011603158RV 2840011603158RV	COMPRESSOR COMPRESSOR COMPRESSOR	TMS TMS TMS	TF0033102 TF0033102	1 1 1	100 100 100	\$365604.90 \$365604.90 \$365604.90	.0990 .0165	\$19176.37 \$1836.40	\$1.929 \$1.899 \$.030	A L A
4	2840000896150RV	2ROTOR LST	TMS	TF0033102	1	100	\$109547.00	.1199	\$13729.13	\$1.646	A
5	2840013016329RV	GEARBOX	TMS	TF0033102	1	100	\$100425.00	.1122	\$7541.53	\$.846	A
6	2840001174891RV 2840001174891RV 2840001174891RV	2 CASE DIF 2 CASE DIF 2 CASE DIF	TMS TMS TMS	TF0033102 TF0033102	1 1 1	100 100 100	\$79484.66 \$79484.66 \$79484.66	.1573 .0023	\$4837.99 \$97.00	\$.761 \$.761 \$.000	A A G
7	2915011620920RV 2915011620920RV 2915011620920RV	1MANIFD LH 1MANIFD LH 1MANIFD LH	TMS TMS TMS	TF0033102 TF0033102	1 1 1	100 100 100	\$15450.00 \$15450.00 \$15450.00	.2234 .0014	\$2994.69 \$498.00	\$.670 \$.669 \$.001	A A G
8	2840011606481RV 2840011606481RV 2840011606481RV	ROTOR TFCD ROTOR TFCD ROTOR TFCD	TMS TMS TMS	TF0033102 TF0033102	1 1 1	100 100 100	\$74859.00 \$74859.00 \$74859.00	.0462 .0066	\$13395.14 \$1248.50	\$.627 \$.619 \$.008	A A G
9	2995012452844RV	1 ACTUATOR	TMS	TF0033102	1	100	\$12582.48	.2410	\$2532.03	\$.610	A
10	2840004399236RV	(3)BLD SET	TMS	TF0033102	16	100	\$3424.75	3.6499	\$160.20	\$.585	A
11	2915011605502RV 2915011605502RV 2915011605502RV	1FUEL PUMP 1FUEL PUMP 1FUEL PUMP	TMS TMS TMS	TF0033102 TF0033102	1 1 1	100 100 100	\$7766.20 \$7766.20 \$7766.20	.2509 .0066	\$2299.97 \$152.00	\$.578 \$.577 \$.001	A A G
12	2915011606392RV 2915011606392RV 2915011606392RV	MANIFOLD R MANIFOLD R MANIFOLD R	TMS TMS TMS	TF0033102 TF0033102	1 1 1	100 100 100	\$23072.00 \$23072.00 \$23072.00	.1023 .0033	\$5585.65 \$572.00	\$.574 \$.572 \$.002	A A G
13	2840010383217RV	SHROUD T 1	TMS	TF0033102	1	100	\$10984.58	.2638	\$2095.17	\$.553	A
14	2840011606493RV 2840011606493RV 2840011606493RV	CASE T NOZ CASE T NOZ CASE T NOZ	TMS TMS TMS	TF0033102 TF0033102	1 1 1	100 100 100	\$18845.91 \$18845.91 \$18845.91	.1291 .0009	\$3764.52 \$83.50	\$.486 \$.486 \$.000	A A G
15	2840001507416RV	1BLADESETT	TMS	TF0033102	65	100	\$156.25	11.3408	\$38.61	\$.438	A
16	2840008067799RV	CASE TURB	TMS	TF0033102	1	100	\$11824.40	.0958	\$4479.59	\$.429	A
17	2915009185723RV 2915009185723RV 2915009185723RV	1MANIFD RH 1MANIFD RH 1MANIFD RH	TMS TMS TMS	TF0033102 TF0033102	1 1 1	100 100 100	\$23072.00 \$23072.00 \$23072.00	.1629 .0029	\$2570.54 \$283.50	\$.420 \$.419 \$.001	A A G
18	2840008285214RV	COM CHBR23	TMS	TF0033102	2	100	\$1848.85	.2827	\$1315.62	\$.372	A
19	2925011615596RV	1 EXCITER	TMS	TF0033102	1	100	\$6176.91	.2508	\$1469.92	\$.369	A
20	4810004389890RV	1 ACTUATOR	TMS	TF0033102	2	100	\$2001.82	.6202	\$553.62	\$.343	A
21	2840008285217RV	COMCHBR67B	TMS	TF0033102	3	100	\$1848.85	.3162	\$1067.19	\$.337	A
22	4810008095147RV	1 ACTUATOR	TMS	TF0033102	2	100	\$1020.00	.3332	\$913.46	\$.304	A
23	2840002399737RV 2840002399737RV 2840002399737RV	2ROTOR HST 2ROTOR HST 2ROTOR HST	TMS TMS TMS	TF0033102 TF0033102	1 1 1	100 100 100	\$34164.71 \$34164.71 \$34164.71	.0905 .0018	\$2899.57 \$1106.00	\$.264 \$.262 \$.002	A A G
24	2840009873757RV	3BLADESET4	TMS	TF0033102	40	100	\$185.40	3.6644	\$68.75	\$.252	A

a. Rank. Depot repair cost ranking for the stock-numbered item on the engine in the fiscal year. If the engine is installed on aircraft, the ranking is based on the stock-numbered item's cost per engine flying hour, in high-to-low sequence. If the engine is installed on missiles, the cost ranking is based on the stock numbered item's total cost per engine, in high-to-low sequence.

b. Stock Number. Identifies the reparable item master stock number or subgroup master stock number used on the engine application identified in the "NSN Application" field. Multiple report lines may be generated for a single stock-numbered item. One report line is generated for each different work performance category (WPC) of repair. If there are two or more WPCs for an item, an NSN total line (containing the rank number) is displayed which contains the sum of the individual WPC repair cost rates. On this report, multiple report lines for the same item will appear together under one rank number in ascending WPC sequence.

c. NSN Nomenclature. Descriptive nomenclature for the stock-numbered item.

d. Application Type. Identifies the engine type. If the application type value is "TMS" the "NSN Application" shown is an engine. If the application type value is "APU" the "NSN Application" shown is an auxiliary power unit. If the application type value is "MOD" the "NSN Application" shown is an engine module. If the application type value is "BOX" the "NSN Application" shown is an engine gearbox.

e. NSN Application. The engine, engine module, engine gearbox, or APU on which the stock-numbered item is used.

f. NSN Quantity Per Application (QPA). Quantity of this stock-numbered item used on the "NSN application".

g. NSN Percent Application. The percentage of the "NSN application" inventory that uses the stock-numbered item.

h. NSN Unit Price. Unit price of the stock-numbered item. This is the last buy price of the item.

i. Repair Rate. If the engine is installed on aircraft, this field contains the quantity of the item repaired per 1,000 engine flying hours in the fiscal year by work performance category. If the engine is installed on missiles, this field contains the quantity of the item repaired per engine in the fiscal year by work performance category. (See note below.)

j. Average Cost to Repair. Average cost to repair the stock-numbered item in the fiscal year by work performance category. (See note below.)

k. Repair Cost Rate. If the engine is installed on aircraft, this field contains the stock-numbered item's depot repair cost per engine flying hour in the fiscal year by work performance category. If the engine is installed on missiles, this field contains the stock-numbered item's depot repair cost per engine in the fiscal year by work performance category.

l. WPC. Work performance category identifying the type of work performed. (See Attachment 2 for definitions of the work performance categories.)

Note: The "PQC" value is very often reported incorrectly through the AFMC maintenance accounting systems. We recommend that you **do not use** this value or any other values derived from the "PQC" value.

3.7.10. Engine Depot Maintenance Detail Labor, Material, Overhead Report (PCN: Q-H036C-E04-IR-8IR). *Weapon System Cost Retrieval System, FYxx Engine Depot Maintenance Costs, FYxx Costs In FYnn Dollars.* The intent of this report is to provide detailed depot labor, material, overhead costs and man-hour information, on an item-by-item basis, for each reparable item used on an engine or auxiliary power unit (APU) in the fiscal year. This report has two parts, described below. Costs can be displayed in either then-year dollars or constant-year dollars. The Engine Report Foreword identifies the engine costs that are specifically included or excluded in the report.

3.7.10.1. Q-H036C-E04-IR-8IR Part 1: Off-Equipment Repair Summary. This part displays the *off-equipment* depot repair costs, in NSN sequence, for each reparable item used on the engine. Multiple report lines may be displayed for the same item, with each report line displaying depot repair costs by different work performance category. Multiple report lines for the same item will appear together on the report in ascending WPC sequence. When multiple report lines for the same item are displayed, an NSN total line is also displayed showing the total NSN depot repair costs for the engine.

3.7.10.2. Q-H036C-E04-IR-8IR Part 2: On-Equipment Repair Summary. This part displays the *on-equipment* depot maintenance overhaul costs for the engine by WPC.

3.7.11. Detail Database Download Engine Cost Report (Floppy Disk). *Download TMS Cost Report.* This file is generated to satisfy Detail Database interrogations for engine cost data, giving the user the option of receiving the Q-H036C-E01-IR-8IR and Q-H036C-E04-IR-8IR report cost data on electronic media (floppy disk or CD-ROM) rather than on paper. Available formats include ASCII, spreadsheet, or database file. Record descriptions are provided to the user when this file is requested.

a. Master Stock Number. Identifies the reparable item master stock number or subgroup master stock number used on the engine application identified in the "NSN Application" field. The item may appear several times on the report. One report line appears for each different WPC of repair on the item. Multiple report lines for the same item will appear together in ascending WPC sequence.

b. NSN Nomenclature. Descriptive nomenclature for the stock-numbered item.

c. Application Type. Identifies engine type. If the application type value is "TMS", the "NSN Application" shown is an engine. If application type value is "APU" the "NSN Application" shown is an auxiliary power unit. If the application type value is "MOD" the "NSN Application" shown is an engine module. If the application type value is "BOX" the "NSN Application" shown is an engine gearbox.

d. NSN Application. The engine, engine module, engine gearbox, or APU on which the stock-numbered item is used.

Figure 3.17. Engine Depot Maintenance Detail Labor, Material, Overhead Report
Part 1: Off-Equipment Repair Summary

FMP	TF0033102 ENGINE- ENG FHR5-	TF0033102 298116	WEAPON SYSTEM COST RETRIEVAL SYSTEM 12/17/99				Q-H036C-E04-IR-81R				PAGE 1			
			FY91 ENGINE DEPOT MAINTENANCE COSTS				3511917							
			FY91 COSTS IN FY91 DOLLARS											
			PART 1: OFF-EQUIPMENT REPAIR SUMMARY											
(a) MASTER STOCK NO (NSN)	(b) NSN NOMENCLATURE	(c) APPL TYPE	(d) NSN APPLICATION	(e) NSN QPA	(f) NSN APP %	MAN- HOURS	FIXED \$COST	ORGANIC LABOR \$COST	MAT'L \$COST	OTHER \$COST	CONTRACT CNTRACT \$COST	GFM/GFS \$COST	(h) TOTAL VARIABLE \$COST	(i) W P C
2840000035607RV	HSG NR5BRG	TMS	TF0033102	1	100	6	50	29	0	18	0	0	247	A
2840000035608RV	SPT -5 BRG	TMS	TF0033102	1	100	182	1619	3508	0	2510	0	0	6018	A
2840000192220RV	SEAL 3 BRG	TMS	TF0033102	1	100	0	0	0	0	0	6661	116	6777	A
2840000214994RV	2 SPT-5BRG	TMS	TF0033102	1	100	591	5207	11606	3561	8946	0	0	24113	A
2840000214994RV	2 SPT-5BRG	TMS	TF0033102	1	100	590	5198	11586	3561	8935	0	0	24082	A
2840000214994RV	2 SPT-5BRG	TMS	TF0033102	1	100	1	9	20	0	11	0	0	31	G
2840000551224RV	SUPRT BEAR	TMS	TF0033102	1	100	1241	10983	24719	0	19532	0	0	44251	A
2840000640515RV	3SPACER14S	TMS	TF0033102	1	100	0	0	0	0	0	0	0	0	
2840000669911RV	3 SHROUD	TMS	TF0033102	1	100	0	0	0	0	0	0	0	0	
2840000752660RV	3SEAL351NR	TMS	TF0033102	1	100	206	2033	4093	0	2984	0	0	7077	A
2840000792509RV	RING TURB4	TMS	TF0033102	1	100	62	464	1178	0	754	0	0	1932	A
2840000880474RV	(3) HUB N1	TMS	TF0033102	1	100	40	323	813	0	497	0	0	1310	J
2840000896150RV	2ROTOR LST	TMS	TF0033102	1	100	10248	86516	201128	52572	150527	0	0	404227	A
2840001151606RV	VANE SHR4	TMS	TF0033102	2	100	546	4894	10574	977	6913	0	0	18464	A
2840001174891RV	2 CASE DIF	TMS	TF0033102	1	100	4308	38092	85825	13924	89156	0	0	188905	A
2840001174891RV	2 CASE DIF	TMS	TF0033102	1	100	4307	38085	85792	13924	89130	0	0	188846	A
2840001174891RV	2 CASE DIF	TMS	TF0033102	1	100	1	7	33	0	26	0	0	59	G
2840001183288RV	3/SPACR#13	TMS	TF0033102	1	100	0	0	0	0	0	0	0	0	
2840001373889RV	3SPACER TU	TMS	TF0033102	1	100	12	96	234	0	194	0	0	428	A
2840001507416RV	1BLADESETT	TMS	TF0033102	65	100	0	0	0	0	0	127139	3381	130520	A
2840001534090RV	SEAL TURB1	TMS	TF0033102	1	100	715	6277	14293	0	10559	0	0	24852	A
2840001662356RV	(3)BLD #12	TMS	TF0033102	75	100	0	0	0	0	0	10256	1956	12212	A
2840001662357RV	(3)BLD #13	TMS	TF0033102	75	100	0	0	0	0	0	13584	2717	16301	A
2840001690191RV	CLAMP	TMS	TF0033102	8	100	0	0	0	0	0	73502	1059	74561	A
2840001763734RV	3 DISK 7	TMS	TF0033102	1	100	119	1103	2295	0	1414	0	0	3709	
2840001763734RV	3 DISK 7	TMS	TF0033102	1	100	84	760	1592	0	1043	0	0	2635	A
2840001763734RV	3 DISK 7	TMS	TF0033102	1	100	35	343	703	0	371	0	0	1074	J
2840002224164RV	(3)BLD #11	TMS	TF0033102	75	100	0	0	0	0	0	5643	1119	6762	A
2840002263900RV	RING TURB3	TMS	TF0033102	1	100	257	2281	5028	0	3434	0	0	8462	A
2840002399737RV	2ROTOR HST	TMS	TF0033102	1	100	1617	14326	31229	10669	22582	0	0	64480	A
2840002399737RV	2ROTOR HST	TMS	TF0033102	1	100	1605	14199	30957	10669	22397	0	0	64023	A
2840002399737RV	2ROTOR HST	TMS	TF0033102	1	100	12	127	272	0	185	0	0	457	G
2840002437740RV	2 DUCT CC	TMS	TF0033102	1	100	811	7202	16345	0	12015	0	0	28360	A
2840002437740RV	2 DUCT CC	TMS	TF0033102	1	100	807	7170	16254	0	11960	0	0	28214	A
2840002437740RV	2 DUCT CC	TMS	TF0033102	1	100	4	32	91	0	55	0	0	146	G
2840002560880RV	VANE 1STG	TMS	TF0033102	16	100	0	0	0	0	0	0	0	0	
2840002560894RV	VANE 1 STG	TMS	TF0033102	21	100	0	0	0	0	0	5252	251	5503	A
2840002560928RV	VANE 1 STG	TMS	TF0033102	16	100	0	0	0	0	0	5932	297	6229	A
2840002561016RV	VANE 1 STG	TMS	TF0033102	10	100	0	0	0	0	0	6272	314	6586	A

e. NSN Quantity Per Application (QPA). Quantity of the stock-numbered item used on the "NSN Application".

f. NSN Application Percent. The percentage of the "NSN Application" inventory that uses the stock-numbered item.

g. Organic Man-hours. Organic off-equipment depot labor man-hours expended in the repair of the item in the fiscal year by WPC. Man-hours include hours expended during direct civilian labor, other direct civilian labor, direct military labor, and other direct military labor.

h. Organic Fixed Cost. Fixed portion of the organic off-equipment depot repair cost for the stock-numbered item in the fiscal year by WPC. This cost is the funded General and Administrative overhead cost.

i. Organic Labor Cost. Organic off-equipment depot repair labor cost for the stock-numbered item in the fiscal year by work performance category. Cost includes any direct civilian labor cost, other direct civilian labor cost, direct military labor cost, and other direct military labor cost.

j. Organic Material Cost. The organic off-equipment depot repair material cost for the stock-numbered item in the fiscal year by work performance category. This cost is the funded direct expense material cost.

k. Organic Other Cost. The organic off-equipment depot repair other cost for the stock-numbered item in the fiscal year by work performance category. This cost includes any funded other direct cost, funded operations overhead cost, and funded organic maintenance support costs.

l. Contract Cost. The contract off-equipment depot repair cost for the stock-numbered item in the fiscal year by work performance category. This cost includes any contract and interservice cost.

m. GFM/GFS Cost. The government furnished contract off-equipment depot repair cost for the stock-numbered item in the fiscal year by work performance category. This cost includes any government furnished expense material and funded government furnished services.

n. Total Variable Cost. The total variable off-equipment depot repair cost for the stock-numbered item in the fiscal year by work performance category. This cost is the sum of the labor cost, material cost, other cost, contract cost, and GFM/GFS cost fields. (Note: Organic fixed cost plus total variable cost = total depot repair cost.)

o. Work Performance Category. The work performance category for the repair. (See Attachment 2 for definitions of the work performance categories.)

**Figure 3.18. Engine Depot Maintenance Detail Labor, Material, Overhead Report
Part 2: On-Equipment Repair Summary**

[illegible]

a. Overhauled Engines. Identifies the engine, engine module, auxiliary power unit, or gearbox undergoing on-equipment overhaul.

b. Organic Man-hours. The organic on-equipment depot repair labor man-hours expended in the repair of the “Overhauled Engine” in the fiscal year by work performance category. The man-hours include any direct civilian labor hours, other direct civilian labor hours, direct military labor hours, and other direct military labor hours.

c. Organic Fixed Cost. The fixed portion of the organic on-equipment depot repair cost for the “Overhauled Engine” in the fiscal year by work performance category. This cost is the funded General and Administrative overhead cost.

d. Organic Labor Cost. The organic on-equipment depot repair labor costs for the “Overhauled Engine” in the fiscal year by work performance category. This cost includes any direct civilian labor cost, other direct civilian labor cost, direct military labor cost, and other direct military labor cost.

e. Organic Material Cost. The organic on-equipment depot repair material cost for the “Overhauled Engine” in the fiscal year by work performance category. This cost is the funded direct expense material cost.

f. Organic Other Cost. The organic on-equipment depot repair other costs for the “Overhauled Engine” in the fiscal year by work performance category. This cost includes any funded other direct cost, funded operations overhead cost, and funded organic maintenance support costs.

g. Contract Cost. The contract on-equipment depot repair cost for the "Overhauled Engine" in the fiscal year by work performance category. This cost includes any contract and interservice cost.

h. GFM/GFS Cost. The government furnished contract on-equipment depot repair cost for the “Overhauled Engine” in the fiscal year by work performance category. This cost includes any government furnished expense material and funded government furnished services.

i. Total Variable Cost. The total variable on-equipment depot repair costs for the “Overhauled Engine” in the fiscal year by work performance category. This cost is the sum of the labor cost, material cost, other cost, contract cost, and GFM/GFS cost fields.

j. Work Performance Category. The work performance category for the repair. (See Attachment 2 for definitions of the work performance categories.)

3.7.12. Weapon System Commonality Report Part A: MDS Summary (PCN: Q-H036C-250-IR-8IR). FYxx

Weapon System Commonality Report, Item Commonality/Cost Commonality By Weapon System Work Breakdown Structure, FYxx Cost In FYzz Dollars. This report identifies item commonality and cost commonality within a weapon system and across weapon systems. This report is by individual aircraft or missile weapon system MDS. This report shows the aircraft or missile weapon system condemnation and depot repair cost expenditures for one fiscal year, summarized to off-equipment, on-equipment, and total weapon system costs. The costs in the report can be displayed in either then-year dollars or constant-year dollars. Exchangeable item costs are displayed in the Off-Equipment (Components) Section of the report. Overhaul costs are displayed in the On-Equipment (Overhaul) Section of the report. All costs are summarized and displayed by the weapon system work breakdown structure elements. Support equipment (SU) work breakdown structure costs are specifically excluded from this report since they are not considered direct weapon system costs. Within each work breakdown structure summary, costs are displayed to the commonality level as MDS peculiar, modified fleet peculiar, fleet peculiar, common, or FSC common. The commonality levels are described in Attachment 3. This product's Report Foreword identifies the specific weapon systems included in the report and shows the costs that are specifically included or excluded in the report.

3.7.13. Weapon System Commonality Report Part B: Modified Fleet Summary (PCN: Q-H036C-251-IR-8IR).

FYxx Weapon System Commonality Report, Item Commonality/Cost Commonality By Weapon System Work Breakdown Structure, FYxx Cost In FYzz Dollars. This report is the same as Q-H036C-250-IR-8IR, except costs are summarized (over included MDSS) by modified fleet rather than individual MDS.

3.7.14. Weapon System Commonality Report Part C: Fleet Summary (PCN: Q-H036C-252-IR-8IR). FYxx

Weapon System Commonality Report, Item Commonality/Cost Commonality By Weapon System Work Breakdown Structure, FYxx Cost In FYzz Dollars. This report is the same as Q-H036C-250-IR-8IR, except costs are summarized (over included MDSS) by fleet rather than individual MDS.

3.7.15. Weapon System Commonality Report Part D: Mission Summary (PCN: Q-H036C-253-IR-8IR). FYxx

Weapon System Commonality Report Item, Commonality/Cost Commonality By Weapon System Work Breakdown Structure, FYxx Cost In FYzz Dollars. This report is the same as Q-H036C-250-IR-8IR, except costs are summarized (over included MDSS) by mission rather than individual MDS.

3.7.16. Weapon System Commonality Report Part E: Grand Total Summary (PCN: Q-H036C-254-IR-8IR).

FYxx Weapon System Commonality Report Item, Commonality/Cost Commonality By Weapon System Work Breakdown Structure, FYxx Cost In FYzz Dollars. This report is the same as Q-H036C-250-IR-8IR, except costs are summarized (over included MDSS) by all aircraft or all missiles rather than individual MDS.

Figure 3.19. Weapon System Commonality Report
Part A: MDS Summary, Off-Equipment (Components)

FMP		FY91 WEAPON SYSTEM COMMONALITY REPORT				12/17/99		Q-H036C-250-IR-8IR		PAGE 1	
STD MDS- FLYING HRS- INV MTHS-		B052H 31898 1138		ITEM COMMONALITY/COST COMMONALITY BY WEAPON SYSTEM WORK BREAKDOWN STRUCTURE FY91 COST IN FY91 DOLLARS PART A: MDS SUMMARY				3511934			
WORK BREAKDOWN STRUCTURE		>>>> ITEM <<<<		>>> CONDEMNATION <<<		>>>>>>>>>> D E P O T		M A I N T E N A N C E		<<<<<<<<<<<<	
OFF-EQUIPMENT (COMPONENTS)		COUNT	%	COST	%	TOTAL COST	%	ORGANIC COST	%	CONTRACT COST	%
		b	c	d	e	f	g	h	i	j	k

AIRCRAFT ACCESSORIES (AA)											
MDS PECULIAR		245	9	115721	2	6981770	29	6981770	30	0	0
MOD-FLEET PECULIAR		0	0	0	0	0	0	0	0	0	0
FLEET PECULIAR		1451	55	6794709	93	14262791	60	14049866	60	212925	64
COMMON		935	36	431701	6	2676441	11	2556779	11	119662	36
TOTAL		2631	100	7342131	100	23921002	100	23588415	100	332587	100
(FSC COMMON)		(NA)	(NA)	(NA)	(NA)	<237262 >	(NA)	<208386 >	(NA)	<28877 >	(NA)
ARMAMENT ACCESSORIES (AR)											
MDS PECULIAR		4	4	0	0	0	0	0	0	0	0
MOD-FLEET PECULIAR		0	0	0	0	0	0	0	0	0	0
FLEET PECULIAR		56	49	10660	62	520393	94	520393	94	0	0
COMMON		54	47	6545	38	34431	6	34431	6	0	0
TOTAL		114	100	17205	100	554824	100	554824	100	0	0
(FSC COMMON)		(NA)	(NA)	(NA)	(NA)	<596677 >	(NA)	<3749 >	(NA)	<592928 >	(NA)
ENGINE/APU ACCESSORIES (EA)											
MDS PECULIAR		143	33	2173492	31	7185695	68	7001885	77	183810	12
MOD-FLEET PECULIAR		0	0	0	0	0	0	0	0	0	0
FLEET PECULIAR		32	7	46438	1	429312	4	429312	5	0	0
COMMON		255	59	4746686	68	2970058	28	1631903	18	1338156	88
TOTAL		430	100	6966616	100	10585065	100	9063100	100	1521966	100
(FSC COMMON)		(NA)	(NA)	(NA)	(NA)	<7218 >	(NA)	<1780 >	(NA)	<5439 >	(NA)
AVIONICS COMMUNICATIONS (VC)											
MDS PECULIAR		26	6	12000	5	422338	35	422338	36	0	0
MOD-FLEET PECULIAR		0	0	0	0	0	0	0	0	0	0
FLEET PECULIAR		168	40	205951	80	662857	55	649979	55	12878	45
COMMON		230	54	40180	16	114363	10	98925	8	15438	55
TOTAL		424	100	258131	100	1199558	100	1171242	100	28316	100
(FSC COMMON)		(NA)	(NA)	(NA)	(NA)	<102420 >	(NA)	<100598 >	(NA)	<1821 >	(NA)
AVIONICS INSTRUMENTATION (VI)											
MDS PECULIAR		6	18	0	0	0	0	0	0	0	0
MOD-FLEET PECULIAR		0	0	0	0	0	0	0	0	0	0
FLEET PECULIAR		17	52	0	0	13895	70	13895	71	0	0
COMMON		10	30	164	100	6019	30	5548	29	471	100
TOTAL		33	100	164	100	19914	100	19443	100	471	100
(FSC COMMON)		(NA)	(NA)	(NA)	(NA)	<20240 >	(NA)	<18736 >	(NA)	<1503 >	(NA)
AVIONICS NAVIGATION (VN)											
MDS PECULIAR		125	10	11771	0	2033539	25	1982755	33	50784	2
MOD-FLEET PECULIAR		0	0	0	0	0	0	0	0	0	0
FLEET PECULIAR		727	57	9375583	69	3054120	37	1821724	30	1232396	58
COMMON		432	34	4136005	31	3123622	38	2293954	38	829668	39
TOTAL		1284	100	13523359	100	8211281	100	6098433	100	2112848	100
(FSC COMMON)		(NA)	(NA)	(NA)	(NA)	<209140 >	(NA)	<60682 >	(NA)	<148458 >	(NA)
① TOTAL OFF-EQUIPMENT											
MDS PECULIAR				2312984	8	16623342	37	16388748	40	234594	6
MOD-FLEET PECULIAR				0	0	0	0	0	0	0	0
FLEET PECULIAR				16433341	58	18943368	43	17485169	43	1458199	36
COMMON				9361281	33	8924934	20	6621540	16	2303395	58
TOTAL				28107606	100	44491644	100	40495457	100	3996188	100
(FSC COMMON)				(NA)	(NA)	<1172957 >	(NA)	<393931 >	(NA)	<779026 >	(NA)

a. Work Breakdown Structure. The weapon system's off-equipment (component) and on-equipment (overhaul) work breakdown structures (WBS) are listed. Within each WBS, the commonality levels are itemized. Also, within each on-equipment (overhaul) WBS, the ICS-Depot Level, ICS-Base level, and CLS cost categories are listed if the weapon system incurred these costs in the fiscal year.

b. Item Count. In the Off-Equipment (Components) Section of the report, item count is the number of unique stock-numbered items within each commonality level of the specific work breakdown structure. (FSC Common level item count is not applicable). In the On-Equipment (Overhaul) Section of the report, item count is the number of unique weapon system MDSs or propulsion system TMSs within each commonality level of a specific work breakdown structure. A total item count line within each work breakdown structure is also displayed.

c. Item Count Percent. Percent of the items within the work breakdown structure that are contained in each commonality level. (FSC Common level is not applicable). A total item count percentage line within each work breakdown structure is also displayed.

d. Condemnation Cost. The rate includes both base and depot condemnations of the stock-numbered item. Condemnation data are only displayed in the Off-Equipment (Components) Section of the report. Condemnation costs within each work breakdown structure are itemized and displayed by commonality level. (FSC Common level is not applicable). A total condemnation cost line within each off-equipment (component) work breakdown structure is also displayed.

e. Condemnation Cost Percent. Condemnation data are only displayed in the Off-Equipment (Components) Section of the report. The percentage of condemnation costs within each work breakdown structure is itemized and displayed by commonality level. (FSC Common level is not applicable). A total condemnation cost percentage line within each work breakdown structure is also displayed.

f. Depot Maintenance Total Cost. The total of organic and contract depot repair costs within each work breakdown structure are itemized and displayed by commonality level. A total depot repair cost line within each work breakdown structure is also displayed. (The FSC Common, ICS-Depot Level, ICS-Base Level, and CLS costs are not included in this total line).

g. Depot Maintenance Total Cost Percent. Percentages of total depot repair costs within each work breakdown structure are itemized and displayed by commonality level. A total depot repair cost percentage line within each work breakdown structure is also displayed. (FSC Common, ICS-Depot Level, ICS-Base Level, and CLS cost percentages are not included in the total line).

h. Depot Maintenance Organic Cost. Organic depot repair costs within each work breakdown structure are itemized and displayed by commonality level. A total organic depot maintenance cost line within each work breakdown structure is also displayed. (FSC Common costs are displayed as reference information only and are not included in this total line).

Figure 3.20. Weapon System Commonality Report
Part A: MDS Summary, On-Equipment (Overhaul)

FMP		FY91 WEAPON SYSTEM COMMONALITY REPORT				12/17/99	Q-H036C-250-IR-8IR		PAGE	2
STD MDS-		B052H		ITEM COMMONALITY/COST COMMONALITY BY			3511934			
FLYING HRS-		31898		WEAPON SYSTEM WORK BREAKDOWN STRUCTURE						
INV MTHS-		1138		FY91 COST IN FY91 DOLLARS						
		a		PART A: MDS SUMMARY						
WORK BREAKDOWN STRUCTURE		>>>> ITEM <<<<		>>> CONDEMNATION <<<		>>>>>>>>>> D E P O T		M A I N T E N A N C E <<<<<<<<<		
		COUNT		COST		TOTAL COST		ORGANIC COST		CONTRACT COST
ON-EQUIPMENT (OVERHAUL)		b		c		d		e		f
										g
										h
										i
										j
										k

AIRCRAFT (AF)										
MDS PECULIAR		1		100		53296900		100		52050340
(ICS-DEPOT LEVEL)		<1>		(NA)		<9521000 >		(NA)		1246560
(ICS-BASE LEVEL)		<1>		(NA)		<160000 >		(NA)		<9521000 >
										<160000 >
ENGINE/APU (EO/EA)										
MDS PECULIAR		2		100		4564246		100		4564246
MOD-FLEET PECULIAR		0		0		0		0		0
FLEET PECULIAR		0		0		0		0		0
COMMON		0		0		0		0		0
TOTAL		2		100		4564246		100		4564246

TOTAL ON-EQUIPMENT										
MDS PECULIAR						57861146		100		56614586
MOD-FLEET PECULIAR		0		0		0		0		0
FLEET PECULIAR		0		0		0		0		0
COMMON		0		0		0		0		0
TOTAL		57861146		100		57861146		100		56614586
(ICS-DEPOT LEVEL)		<9521000 >		(NA)		<9521000 >		(NA)		<9521000 >
(ICS-BASE LEVEL)		<160000 >		(NA)		<160000 >		(NA)		<160000 >

WEAPON SYSTEM TOTAL										
MDS PECULIAR		2312984		8		74484488		73		73003334
MOD-FLEET PECULIAR		0		0		0		0		0
FLEET PECULIAR		16433341		58		18943368		19		17485169
COMMON		9361281		33		8924934		9		6621540
TOTAL		28107606		100		102352790		100		97110043
(FSC COMMON)		(NA)		(NA)		<1172957 >		(NA)		<393931 >
(ICS-DEPOT LEVEL)		<9521000 >		(NA)		<9521000 >		(NA)		<779026 >
(ICS-BASE LEVEL)		<160000 >		(NA)		<160000 >		(NA)		<9521000 >
										<160000 >
0										

3.7.17. Recoverable Item Distribution Report Part A: MDS Summary (PCN: Q-H036C-960-IR-8IR). *FYxx Recoverable Item Distribution Report, Weapon System Quantity/Cost By FSC, FYxx Costs In FYzz Dollars.* This product shows how the depot repair and condemnation costs of recoverable items are distributed within a weapon system. This report is used to identify and analyze weapon system cost drivers by item federal supply classifications (FSC). It can show that a very small percentage of items on a weapon system may account for a very high percentage of total recoverable item cost on the weapon system. This report displays only exchangeable item off-equipment costs for one fiscal year, by individual aircraft or missile weapon system. It does not contain any on-equipment costs. Support equipment work breakdown structure costs are specifically excluded, because they are not considered direct weapon system costs. The depot repair and condemnation costs of exchangeable items are summarized and displayed by FSC and by federal supply group (FSG). Costs in this report can be displayed in either then-year dollars or in constant-year dollars. This product's Report Foreword identifies the specific weapon systems included in the report, and shows the costs that are specifically included or excluded in the report.

3.7.18. Recoverable Item Distribution Report Part B: Modified Fleet Summary (PCN: Q-H036C-961-IR-8IR). *FYxx Recoverable Item Distribution Report, Weapon System Quantity/Cost By FSC, FYxx Costs In FYzz Dollars.* This

report is the same as Q-H036C-960-IR-8IR, but costs are summarized (over included MDSs) by modified fleet rather than individual MDS.

3.7.19. Recoverable Item Distribution Report Part C: Fleet Summary (PCN: Q-H036C-962-IR-8IR). *FYxx Recoverable Item Distribution Report, Weapon System Quantity/Cost By FSC, FYxx Costs In FYzz Dollars.* This report is the same as Q-H036C-960-IR-8IR, except costs are summarized (over included MDSs) by fleet rather than individual MDS.

3.7.20. Recoverable Item Distribution Report Part D: Mission Summary (PCN: Q-H036C-963-IR-8IR). *FYxx Recoverable Item Distribution Report, Weapon System Quantity/Cost By FSC, FYxx Costs In FYzz Dollars.* This report is the same as Q-H036C-960-IR-8IR, except costs are summarized (over included MDSs) by mission rather than individual MDS.

3.7.21. Recoverable Item Distribution Report Part E: Grand Total Summary (PCN: Q-H036C-964-IR-8IR). *FYxx Recoverable Item Distribution Report, Weapon System Quantity/Cost By FSC, FYxx Costs In FYzz Dollars.* This report is the same as Q-H036C-960-IR-8IR, except costs are summarized (over included MDSs) by all aircraft or all missiles rather than individual MDS.

a. FSC/FSG. Identifies the federal supply classification (FSC) number or federal supply group (FSG) number. Only the FSCs that apply to the weapon system will be displayed on the report. If the FSC value is four position numeric, the information displayed on the report line is by FSC, and the recoverable item costs displayed are summarized from Detail Database "Type 1" NSN records for the weapon system. If the FSC value is "blank", the information displayed on the report line is for the previously listed FSC, and the recoverable item costs displayed are summarized from Detail Database "Type 2" FSC records for the weapon system. A "blank" FSC line will appear on the report only if "Type 2" FSC records exist for the weapon system. If the FSC value is only two position numeric, the information displayed on the report line is by federal supply group (FSG), and the recoverable item cost displayed are a summary of costs for all FSCs in the FSG.

b. Federal Supply Commodity Classification. Descriptive nomenclature for the FSC or the FSG.

c. Number Unique NSN. Number of unique recoverable item NSNs in the FSC used on the weapon system. This quantity is obtained by summarizing data from "Type 1" NSN records on the Detail Database. In a "blank" FSC report line, this value is "NA" (not applicable).

d. Percent Total NSN. This value gives the percent of unique recoverable item NSNs that are in the FSC/FSG as compared to the total number of unique recoverable item NSNs for the entire weapon system. In a "blank" FSC report line, this value is "NA" (not applicable).

e. NSN Quantity Condemned. Total quantity of base level and depot level condemnations in the fiscal year, for all recoverable item NSNs in the FSC that are used on the weapon system. This value is

summarized from data contained in the Detail Database "Type 1" NSN records for the weapon system. In a "blank" FSC report line, this value is "NA" (not applicable). In an FSG report line, this value is the sum of the condemnation quantities over all the FSCs in the FSG.

f. Percent of Total Condemns. Percent of condemnation quantities in the FSC/FSG versus the total condemnation quantities for the weapon system. In a "blank" FSC report line, this value is "NA".

g. NSN Condemnation Cost. Total dollar value of recoverable item NSN condemnations by FSC for the aircraft or missile weapon system in the fiscal year. This value is summarized from data in the Detail Database "Type 1" NSN records. In a "blank" FSC report line, this value is "NA". In an FSG report line, this value is the sum of the condemnation costs over all the FSCs in the FSG.

h. Percent of Total Cost. Percent of condemnation cost in the FSC/FSG compared to the total condemnation cost for the weapon system. In a "blank" FSC report line, this value is "NA" (not applicable).

i. Percent Depot Condemned. Percentage of NSN condemnation cost (not quantity) in the FSC/FSG attributable to items being condemned at depot level as opposed to base level. In a "blank" FSC report line, this value is "NA".

j. NSN Quantity Depot Repaired. Total depot repair quantity of recoverable item NSNs in the FSC that are used on the aircraft or missile weapon system. This value is summarized from applicable Detail Database "Type 1" NSN records; in a "blank" FSC report line, this value is summarized from applicable Detail Database "Type 2" FSC records. In the FSG report line, this value is the sum of the repair quantities over all the FSCs in the FSG.

Figure 3.21. Recoverable Item Distribution
Report Part A: MDS Summary

FMP				FY91 RECOVERABLE ITEM DISTRIBUTION REPORT	12/17/99		Q-H036C-960-IR-8IR	PAGE	1				
STD MDS-	B052H			WEAPON SYSTEM QUANTITY/COST BY FSC									
FLYING HRS-	31898			FY91 COSTS IN FY91 DOLLARS			3511936						
TNW MTHS-	1138			PART A: MDS SUMMARY									
FEDERAL SUPPLY CLASSIFICATION				CONDEMNATION				DEPOT MAINTENANCE					
*****				*****				*****					
a	b	c	d	e	f	g	h	i	j	k	l	m	n
FSC/	FEDERAL SUPPLY	NUMBER	%	NSN	QTY	NSN	TOT	%	NSN	QTY	TOT	%	NSN
ESG	COMMODITY CLASSIFICATION	UNIQUE	TOT	CONDEMN	CON	CONDEMN	CST	CON	REPAIRED	REP	REPAIR	CST	CST
		NSN	NSN										ORIG
1005	GUNS THRU 30 MM	10	0.2	3	0.0	4330	0.0	100	48	0.1	31794	0.1	100
	GUNS THRU 30 MM	NA	NA	NA	NA	NA	NA	NA	0	0.0	25	0.0	100
1055	LAUNCHERS, ROCKET & PYROTECH	6	0.1	0	0.0	0	0.0	0	0	0.0	0	0.0	0
1095	MISCELLANEOUS WEAPONS	14	0.3	22	0.3	11337	0.0	94	1398	2.5	547111	1.2	100
	MISCELLANEOUS WEAPONS	NA	NA	NA	NA	NA	NA	NA	23	0.0	1282	0.0	100
10	WEAPONS	30	0.6	25	0.3	15667	0.0	96	1469	2.6	580212	1.3	100

1105	NUCLEAR BOMBS	4	0.1	0	0.0	0	0.0	0	0	0.0	0	0.0	0
1115	NUCLEAR WARHEADS & WARHEAD SECT	4	0.1	0	0.0	0	0.0	0	0	0.0	0	0.0	0
1135	FUZZING & FIRING DVC NUC ORDNANCE	25	0.5	0	0.0	0	0.0	0	0	0.0	0	0.0	0
11	NUCLEAR ORDNANCE	33	0.7	0	0.0	0	0.0	0	0	0.0	0	0.0	0

1240	OPTICAL SIGHTING & RANGING EOP	2	0.0	5	0.1	35088	0.1	100	18	0.0	18718	0.0	100
	OPTICAL SIGHTING & RANGING EOP	NA	NA	NA	NA	NA	NA	NA	0	0.0	39	0.0	100
1270	ACFT GUNNER FIRE CTL CMPNT	71	1.4	0	0.0	20451	0.1	52	687	1.2	1912887	4.2	96
	ACFT GUNNER FIRE CTL CMPNT	NA	NA	NA	NA	NA	NA	NA	17	0.0	60000	0.1	3
1280	ACFT BOMBING FIRE CTL CMPNT	484	9.8	222	2.7	7055461	25.1	96	1379	2.4	2885574	6.3	76
	ACFT BOMBING FIRE CTL CMPNT	NA	NA	NA	NA	NA	NA	NA	6	0.0	467	0.0	79
1290	MISC FIRE CONTROL EQUIPMENT	2	0.0	0	0.0	0	0.0	0	0	0.0	0	0.0	0
12	FIRE CONTROL EQUIPMENT	559	11.2	227	2.8	7111000	25.3	96	2107	3.6	4877685	10.6	83

1377	CARTGE & PROPEL ACTUATO DVC CMPNT	11	0.2	41	0.5	65796	0.2	99	0	0.0	0	0.0	0
13	AMMUNITION AND EXPLOSIVES	11	0.2	41	0.5	65796	0.2	99	0	0.0	0	0.0	0

1420	GUIDED MISSILE COMPONENTS	2	0.0	0	0.0	1537	0.0	100	0	0.0	81	0.0	100
	GUIDED MISSILE COMPONENTS	NA	NA	NA	NA	NA	NA	NA	44	0.1	595370	1.3	0
1430	GUIDED MISSILE REMOTE CONTROL SYS	25	0.5	0	0.0	0	0.0	0	27	0.0	181165	0.4	100
	GUIDED MISSILE REMOTE CONTROL SYS	NA	NA	NA	NA	NA	NA	NA	25	0.0	6062	0.0	51
1440	LAUNCHERS GUIDED MISSILE	51	1.0	0	0.0	0	0.0	0	1	0.0	695	0.0	100
14	GUIDED MISSILES	78	1.5	0	0.0	1537	0.0	100	97	0.1	783373	1.7	24

1560	AIRFRAME STRUCTURAL COMPONENTS	249	5.1	46	0.6	271462	1.0	100	1962	3.5	11552346	25.3	100
	AIRFRAME STRUCTURAL COMPONENTS	NA	NA	NA	NA	NA	NA	NA	1879	3.3	173286	0.4	94
15	AIRCRAFT & AIRFRAME STRUC CMPNTS	249	5.1	46	0.6	271462	1.0	100	3841	6.8	11725632	25.7	100

1620	AIRCRAFT LANDING GEAR COMPONENTS	43	0.9	97	1.2	1321128	4.7	100	399	0.7	1122317	2.5	100
	AIRCRAFT LANDING GEAR COMPONENTS	NA	NA	NA	NA	NA	NA	NA	37	0.1	9650	0.0	62
1630	AIRCRAFT WHEEL & BRAKE SYSTEMS	14	0.3	401	4.9	3142390	11.2	100	901	1.6	741863	1.6	100
	AIRCRAFT WHEEL & BRAKE SYSTEMS	NA	NA	NA	NA	NA	NA	NA	13	0.0	305	0.0	16
1650	ACFT HYDRIC VAC & DEICE SYS CMPNT	64	1.3	55	0.7	179182	0.6	100	473	0.8	1322858	2.9	99
	ACFT HYDRIC VAC & DEICE SYS CMPNT	NA	NA	NA	NA	NA	NA	NA	54	0.1	3393	0.0	100
1660	ACFT AIR COND HTNG & PRESURZD EOP	88	1.8	73	0.9	260978	0.9	98	613	1.1	592514	1.3	95
	ACFT AIR COND HTNG & PRESURZD EOP	NA	NA	NA	NA	NA	NA	NA	12	0.0	332	0.0	96

REFERENCE THE REPORT FOREWORD OF THIS PRODUCT FOR IDENTITY OF SPECIFIC WEAPON SYSTEMS, WBS AND WPC CATEGORIES INCLUDED IN THIS RUN. COST TYPES: (INCLUDE CLASS IV)(INCLUDE CLASS V) EXCLUDE ICS EXCLUDE CLS INCLUDE BASELINE INCLUDE OFF-EQUIP EXCLUDE ON-EQUIP													

k. Percent of Total Repair. Percent of repair quantities in the FSC/FSG compared to the total repair quantities for the weapon system.

1. NSN Depot Repair Cost. Fiscal year total depot repair cost for recoverable item NSNs in the FSC used on the weapon system. This value is summarized from Detail Database "Type 1" NSN records; in a "blank" FSC report line, this value is summarized from Detail Database "Type 2" FSC records. In a FSG report line, this value is the sum of depot repair cost over all FSCs in the FSG.

m. Percent of Total Cost. Percent of depot repair cost in the FSC/FSG compared to the total depot repair cost for the weapon system.

n. Percent of Organic Cost. Percent of NSN repair cost in the FSC/FSG that was accomplished organically.

o. Report Footnote Lines. Identifies the cost content of an individual weapon system report. The footnote lines are displayed at the end of each individual weapon system report. The “COST TYPES” line of the report footnote identifies if Class IV modification installation cost, Class V modification installation cost, ICS cost, CLS cost, baseline cost, off-equipment cost, or on-equipment repair cost are specifically included or excluded from the report cost content. If a particular cost type “included” is enclosed by parentheses, this means the weapon system did not incur that particular cost type in the fiscal year reported; if the cost type “included” is not enclosed by parentheses, this means the weapon system did incur that particular cost type in the fiscal year reported, and that cost is included in the report.

3.7.22. Detail Database (DDB) Extract. *Detail Database Interrogation Extract.* The intent of this product is to provide the user a CD-ROM, floppy disk, or computer tape which contains data records extracted from the WSCRS Detail Database. The extract file contains WSCRS Detail Database records (with the data elements shown in the table below) for one fiscal year for the specific weapon system data requested by the user. One extract file is generated for each fiscal year information requested. Record descriptions are provided to the user when this file is requested.

Table 3.4. DDB Extract Data Elements

No.	Data Element Name	Source
1	Record Type	H036C
2	Fiscal Year	H036C
3	NSN (FSC)	D041
4	NSN QPA on Application	D041
5	NSN% on Application	D041
6	Standard MDS	D200
7	Application (MDS or TMS)	D200
8	Application QPA on MDS	D200
9	% Application on MDS	D200
10	Application Operating Hour%	D200
11	MDS Flying Hours	D200
12	MDS Inventory Months	D200
13	Application Operating Hours/Inventory Months	D200
14	Application Type	H036C
15	Next Higher Application (NHA)	D200
16	NHA QPA on MDS	D200
17	NHA% Application on MDS	D200
18	NHA Operating Hour%	D200
19	NHA Operating Hours/Inventory Months	D200
20	NHA Application Type	H036C
21	Duplicate Indicator	H036C
22	NSN Operating Hours (FSC-MDS Flying Hours)	D200/D041
23	NSN Inventory Months (FSC-MDS Inventory Months)	D200/D041
24	NSN Nomenclature	D041
25	NSN Unit Price	D041
26	NSN Base Condemnation Quantity	D041
27	NSN Base Condemnation Quantity	D041
28	Program Select Code (Position 1)	D041
29	Work Performance Code	H036A
30	Direct Civilian Labor Cost	H036A

Table 3.4. (Continued) DDB Extract Data Elements

No.	Data Element Name	Source
31	Direct Civilian Labor Hours	H036A
32	Other Direct Civilian Labor Cost	H036A
33	Other Direct Civilian Labor Hours	H036A
34	Direct Military Labor Cost	H036A
35	Direct Military Labor Hours	H036A
36	Other Direct Military Labor Cost	H036A
37	Other Direct Military Labor Hours	H036A
38	Funded Direct Material Cost	H036A
39	Unfunded Direct Material Cost-Investment	H036A
40	Unfunded Direct Material Cost-Exchange	H036A
41	Unfunded Direct Material Cost-Mod Kits	H036A
42	Unfunded Direct Material Cost-Expense	H036A
43	Funded Other Direct Cost	H036A
44	Unfunded Other Direct Cost	H036A
45	Funded Operations Overhead Cost	H036A
46	Unfunded Operations Overhead Cost	H036A
47	Funded General & Administrative Cost	H036A
48	Unfunded General & Administrative Cost	H036A
49	Contractor/Interservice Cost	H036A
50	Government Furnished Material (GFM)-Investment	H036A
51	GFM-Exchange	H036A
52	GFM-Mod Kits	H036A
53	GFM-Expense	H036A
54	Funded Government Furnished Services (GFS)	H036A
55	Unfunded GFS	H036A
56	Funded Organic Maintenance Support Cost	H036A
57	Unfunded Organic Maintenance Support Cost	H036A
58	Production Quantity Completed	H036A
59	Total Funded Cost	H036A
60	Work Unit Code	H036C
61	Work Breakdown Structure Group Code	H036C
62	Allocation Factor	H036C
63	Zero Condemns Indicator	H036C
64	Condemnation Rate/1000 FH	H036C
65	Condemnation Cost Rate/FH	H036C
66	Depot Maintenance Repair Rate/1000 FH	H036C
67	Average Cost to Repair	H036C
68	Depot Maintenance Cost Rate/FH	H036C
69	Record Creation Date	H036C
70	Commonality Designator	H036C

Section D--Summary Database Report Content

3.8. Summary Database Reports. The following paragraphs illustrate the layout and meaning of the Summary Database report products, as they appear in the table that lists them at the beginning of this chapter. For a more detailed discussion of the cost computations, see chapter 4.

3.8.1. Summary Database Report Foreword. The Summary Database Report Foreword identifies the specific aircraft, missile, or engine cost data extracted from the Summary Database, and documents the specific cost content of any Summary Database product generated from that extracted data. The Summary Database Report Foreword is one or two pages,

inserted at the beginning of any report generated from the WSCRS Summary Database. Page 1 of the Report Foreword identifies the H036C (WSCRS) Users Manual, the fiscal years of cost data displayed on the report, the fiscal year dollars in which the cost data are displayed on the report, the specific aircraft, missile, or engine data extracted from the Summary Database, and the cost data that were specifically included or excluded from the data extract. The selected costs are identified by work breakdown structure and cost category. Page 2 of the Report Foreword lists the escalation rates that were used to escalate cost data to the constant-year dollars displayed in a report. Page 2 is not generated for a then-year dollar report.

Figure 3.22. Summary Database Report Foreword
Page 1: Reference and Contact Information

FMP	DEPOT MAINTENANCE WEAPON SYSTEM COST DATA (RCS: SAF-FMC(A&AR)8202)	12/17/99	Q-H036C-S10-IR-81R
a	b SCHEDULE S1: FY85 - FY91 COST FACTORS IN FY91 DOLLARS PART A: MDS SUMMARY	c	d (B45 IC) f 3511901

**WEAPON SYSTEM COST RETRIEVAL SYSTEM (WSCRS)
REPORT FOREWORD**

1. USERS MANUAL.
REFERENCE AFMCMAN 65-606, H036C(WSCRS) USERS MANUAL, TO INTERPRET, UNDERSTAND, AND PROPERLY USE THE HISTORIC WEAPON SYSTEM COSTS CONTAINED IN THIS REPORT. THE H036C (WSCRS) SOURCES OF DATA, COMPUTATION METHODOLOGIES, OUTPUT PRODUCTS, AND THE DEFINITIONS, LIMITATIONS, AND CONSTRAINTS OF COST DATA ARE DESCRIBED.
ANY QUESTIONS OR SUGGESTIONS YOU MAY HAVE CONCERNING WSCRS SYSTEM PRODUCTS OR USERS MANUAL, SHOULD BE ADDRESSED TO:

ATTN: H036C(WSCRS) OPR
HQ AFMC/FMP
4375 CHIDLAW RD, RM N2333
WRIGHT PATTERSON AFB OH 45433-5006

4. WORK BREAKDOWN STRUCTURE CONTENT.
THE TABLE BELOW IDENTIFIES THE WEAPON SYSTEM WORK BREAKDOWN STRUCTURE (WBS) COSTS INCLUDED IN THIS REPORT FOR THE WEAPON SYSTEMS LISTED IN TABLE 1:

TABLE 2. WBS CONTENT.

>>>>>>AIRCRAFT<<<<<<<<<<<<<<<<<<<<<<<<<<<	>>>>>>MISSILE<<<<<<<<<<<<<<<<<<<<<<<<<<<
W B S IN/EX	W B S IN/EX
AF AIRCRAFT OVERHAUL IN	MO MISSILE OVERHAUL EX
EO ENGINE OVERHAUL IN	MF MISSILE FRAME EX
EA ENGINE ACCESSORIES IN	PS PROPULSION SYSTEM EX
AA AIRCRAFT ACCESSORIES IN	MA MISSILE ACCESSORIES EX
VI AVIONICS INSTRUMENTATION IN	SL SUPPORT & LAUNCH EX
VC AVIONICS COMMUNICATION IN	GS GUIDANCE SYSTEM EX
VN AVIONICS NAVIGATION IN	SC SURFACE COMM/CONTROL EX
AR ARMAMENT ACCESSORIES IN	PL PAYLOAD SYSTEM EX
SU BASE SUPPORT EQUIPMENT EX	

2. FISCAL YEAR CONTENT.
THIS REPORT CONTAINS DATA EXTRACTED FROM THE H036C (WSCRS) SUMMARY DATA BASE FOR FY85 - FY91 DISPLAYED IN FY91 DOLLARS.

5. COST CONTENT.
THE TYPE COST SPECIFICALLY INCLUDED OR EXCLUDED IN THIS REPORT ARE SHOWN IN THE FOLLOWING TABLE:

TABLE 3. COSTS INCLUDED/EXCLUDED.

TYPE COST	ON-EQUIPMENT COMPONENT
	OVERHAUL REPAIR
BASELINE	IN IN
CLASS IV MOD INSTALLS	IN IN
CLASS V MOD INSTALLS	IN IN
SOFTWARE	NA NA
INTERIM CONTRACTOR SUPPORT	IN NA
CONTRACTOR LOGISTICS SUPPORT	IN NA

3. WEAPON SYSTEM CONTENT.
THE TABLE BELOW IDENTIFIES THE WEAPON SYSTEMS FOR WHICH COSTS ARE DISPLAYED IN THIS REPORT:

TABLE 1. WEAPON SYSTEMS REPORTED.

B052H

6. INTERROGATION PARAMETERS.
THE FOLLOWING PARAMETER LIST IS FOR REFERENCE INFORMATION ONLY. IF A QUESTION ARISES CONCERNING THE CONTENT OF THIS REPORT, THE FOLLOWING CONTROL PARAMETERS MAY NEED TO BE REFERENCED:

1 S,85.91,AP,CR,N,M,D,.....TI,91,.....

a. Office of Primary Responsibility (OPR). The office symbol of the OPR for H036C (WSCRS) at Air Force Material Command (HQ AFMC/FMP).

b. Report Title. Indicates the title of the report, fiscal year of Summary Database data, and the fiscal year dollars to which the data is escalated.

c. Report Date. Date report was generated.

d. Product Control Number (PCN). PCN of the output product. Uniquely identifies the product.

e. Cost Type Code. Identifies cost types included, for OPR use. See item k (below).

f. Report Timestamp. Day and time the report product was generated. Days appear in positions 1-3 with values from 001-366, hours in positions 4-5 with values 00-23, and minutes are in positions 6-7 with values 00-59.

g. Page Number. Page numbering in WSCRS reports is by section, rather than enumerating the first to last page of an entire product.

h. Fiscal Year Content. Indicates cost escalation by stating fiscal year of data and fiscal year of cost escalation. Cost escalation is also reported in the page 2 of the Report Foreword.

i. Weapon System Content. Identifies MDSs included in an SDB Segment 1 extract or the TMSs included in an SDB Segment 2 extract.

j. WBS Content. Identifies WBS costs that were specifically included or excluded in the SDB extract.

k. Cost Content. Identifies cost types that were specifically included or excluded in the SDB extract.

I. Interrogation Parameters. The interrogation parameters used to generate the report (e.g., subject, content, product format, etc.). Primarily used by OPR.

Figure 3.23. Summary Database Report Foreword
Page 2: Escalation Rates

FMP	DEPOT MAINTENANCE WEAPON SYSTEM COST DATA				12/17/99	Q-H036C-S10-IR-81R	PAGE 2
	(RCS: SAF-FMC(A&AR)8202)						
	SCHEDULE S1: FY85 - FY91 COST FACTORS IN FY91 DOLLARS					(B45 IC)	3511901
	PART A: MDS SUMMARY						
WEAPON SYSTEM COST RETRIEVAL SYSTEM (WSCRS)							
ESCALATION RATES							
BASE YEAR FY91							
THE FOLLOWING RATES WERE USED TO ESCALATE COSTS TO CONSTANT FY91 DOLLARS:							
^b FISCAL YEAR	^c AS OF DATE	^d CIVILIAN PAY FACTOR	^e MILITARY PAY FACTOR	^f MATERIAL AIRFRAME FACTOR	^g MATERIAL ENGINE FACTOR	^h MATERIAL AVIONICS FACTOR	ⁱ OPERATION MAINT FACTOR
75	01/15/99	.410	.417	.403	.349	.550	.402
76	01/15/99	.444	.439	.435	.378	.552	.429
77	01/15/99	.483	.463	.478	.416	.566	.458
78	01/15/99	.520	.495	.516	.446	.581	.495
79	01/15/99	.551	.526	.565	.502	.609	.539
80	01/15/99	.590	.563	.630	.592	.668	.591
81	01/15/99	.641	.659	.701	.683	.719	.662
82	01/15/99	.676	.742	.754	.701	.762	.723
83	01/15/99	.708	.771	.793	.692	.807	.759
84	01/15/99	.730	.795	.820	.719	.845	.787
85	01/15/99	.772	.824	.837	.734	.869	.814
86	01/15/99	.780	.856	.853	.717	.875	.836
87	01/15/99	.821	.876	.872	.726	.891	.860
88	01/15/99	.897	.896	.907	.859	.914	.885
89	01/15/99	.927	.927	.943	.878	.928	.922
90	01/15/99	.962	.962	.962	.953	.968	.959
91	01/15/99	1.000	1.000	1.000	1.000	1.000	1.000
92	01/15/99	1.042	1.041	1.027	1.057	.999	1.028
93	01/15/99	1.082	1.081	1.044	1.074	1.016	1.057
94	01/15/99	1.117	1.107	1.065	1.096	1.035	1.078
95	01/15/99	1.151	1.135	1.086	1.116	1.055	1.098
96	01/15/99	1.180	1.163	1.107	1.139	1.076	1.120
97	01/15/99	1.214	1.194	1.130	1.163	1.099	1.144
98	01/15/99	1.249	1.229	1.139	1.170	1.106	1.151
99	01/15/99	1.290	1.270	1.147	1.180	1.116	1.160
00	01/15/99	1.344	1.323	1.164	1.198	1.133	1.178
01	01/15/99	1.398	1.376	1.183	1.217	1.151	1.197
02	01/15/99	1.453	1.429	1.201	1.236	1.169	1.216
03	01/15/99	1.509	1.483	1.221	1.256	1.188	1.236
04	01/15/99	1.569	1.540	1.246	1.283	1.213	1.261
REFERENCE THE H036C (WSCRS) USERS MANUAL, AFMCMAN 65-606, CHAPTER 4, FOR A DESCRIPTION OF HOW THESE RATES ARE APPLIED.							

a. Base Year. Base fiscal year of the escalation rates.

b. Fiscal Year. Fiscal years of escalation rates, as shown in the table.

c. As of Date. SAF/FMC issue date of escalation rates.

d. Civilian Pay Factor. The civilian pay rate is obtained from AFI 65-503, table A5-1, General Service and Wage Board Pay (3400). The civilian pay rate is used to escalate direct civilian labor cost, other direct civilian labor cost, funded and unfunded operations overhead costs.

e. Military Pay Factor. The military pay rate is obtained from AFI 65-503, table A5-1, Military Compensation Total (3500). The military pay rate is used to escalate direct military labor costs and other direct military labor costs.

f. Material Airframe Factor. The airframe material rate is obtained from AFI 65-503, table A5-3, Airframe Index. The airframe material rate is used to escalate material costs in WBS groups for aircraft overhaul (AF), aircraft accessories (AA), armament accessories (AR), missile overhaul (MO), missile frame (MF), missile accessories (MA), support and launch system (SL), payload system (PL), and support equipment (SU).

g. Material Engine Factor. The engine material rate is obtained from AFI 65-503, table A5-3, Engine Index. The engine material rate is used to escalate material costs in WBS groups for engine overhaul (EO), engine accessories (EA), and propulsion system (PS).

h. Material Avionics Factor. The avionics material rate is obtained from AFI 65-503, table A5-3, Avionics Index. The avionics material rate is used to escalate material costs in WBS groups for avionics instrumentation (VI), avionics communication (VC), avionics navigation (VN), guidance system (GS), and surface communication and control (SC).

i. Operation Maintenance Factor. The O&M non-pay rate is obtained from AFI 65-503, table A5-1, Operations and Maintenance Non-Pay, Non-POL (3400). The O&M non-pay rate is used to escalate funded and unfunded other direct costs, funded and unfunded general and administrative overhead costs, contract and interservice costs, funded and unfunded government furnished services, funded and unfunded organic maintenance support costs, Interim Contractor Support costs, and Contractor Logistics Support costs.

3.8.2. Weapon System Cost Factors Report In Constant-Year Dollars Part A: MDS Summary (PCN: Q-H036C-S10-IR-8IR). *Depot Maintenance Weapon System Cost Data, (RCS: SAF-FMC(A&AR)8202), Schedule 1: FYxx-FYyy Cost Factors In FYzz Dollars.* The intent of this report is to provide a summary of aircraft or missile weapon system costs and cost factors for any number of fiscal years. The report can be used for studying cost trends of the weapon systems and for analyzing weapon system life cycle costs. This report produces a multiple fiscal year summary of historical depot repair and condemnation costs for the aircraft or missile weapon system. The costs and cost factors are displayed in constant-year dollars with up to eight fiscal years of cost data displayed per page. Depot repair and condemnation costs are displayed by the weapon system work breakdown structure for each fiscal year, and all cost factor information is displayed by fiscal year. This product's Report Foreword identifies the specific weapon systems included in the report, and identifies the costs that are specifically included or excluded in the report content. Reference Chapter 4 for a complete description of all computations.

3.8.3. Weapon System Cost Factors Report In Constant-Year Dollars Part B: Modified Fleet Summary (PCN: Q-H036C-S11-IR-8IR). *Depot Maintenance Weapon System Cost Data, (RCS: SAF-FMC(A&AR)8202), Schedule 1: FYxx-FYyy Cost Factors In FYzz Dollars.* This report is the same as Q-H036C-S10-IR-8IR, except that costs are summarized (over the MDSs included in the report) by modified fleet rather than by individual MDS.

3.8.4. Weapon System Cost Factors Report In Constant-Year Dollars Part C: Fleet Summary (PCN: Q-H036C-S12-IR-8IR). *Depot Maintenance Weapon System Cost Data, (RCS: SAF-FMC(A&AR)8202), Schedule 1: FYxx-FYyy Cost Factors In FYzz Dollars.* This report is the same as Q-H036C-S10-IR-8IR, except that costs are summarized (over the MDSs included in the report) by fleet rather than by individual MDS.

3.8.5. Weapon System Cost Factors Report In Constant-Year Dollars Part D: Mission Summary (PCN: Q-H036C-S13-IR-8IR). *Depot Maintenance Weapon System Cost Data, (RCS: SAF-FMC(A&AR)8202), Schedule 1: FYxx-FYyy Cost*

Factors In FYzz Dollars. This report is the same as Q-H036C-S10-IR-8IR, except that costs are summarized (over the MDSs included in the report) by mission rather than by individual MDS.

3.8.6. Weapon System Cost Factors Report In Then-Year Dollars Part A: MDS Summary (PCN: Q-H036C-S20-IR-8IR). *Depot Maintenance Weapon System Cost Data, (RCS: SAF-FMC(A&AR)8202), Schedule 2: FYxx-FYyy Cost Factors In Then Dollars.* This report is the same as Q-H036C-S10-IR-8IR, except that all costs are displayed in then-year dollars, and the average costs over the fiscal years are not displayed.

3.8.7. Weapon System Cost Factors Report In Then-Year Dollars Part B: Modified Fleet Summary (PCN: Q-H036C-S21-IR-8IR). *Depot Maintenance Weapon System Cost Data, (RCS: SAF-FMC(A&AR)8202), Schedule 2: FYxx-FYyy Cost Factors In Then Dollars.* This report is the same as Q-H036C-S10-IR-8IR, except that all costs are summarized (over the MDSs included in the report) by modified mission within fleet rather than by individual MDS, all costs are displayed in then-year dollars, and the average costs over the fiscal years are not displayed.

3.8.8. Weapon System Cost Factors Report In Then-Year Dollars Part C: Fleet Summary (PCN: Q-H036C-S22-IR-8IR). *Depot Maintenance Weapon System Cost Data, (RCS: SAF-FMC(A&AR)8202), Schedule 2: FYxx-FYyy Cost Factors In Then Dollars.* This report is the same as Q-H036C-S10-IR-8IR, except that all costs are summarized (over the MDSs included in the report) by fleet rather than by individual MDS, all costs are displayed in then-year dollars, and the average costs over the fiscal years are not displayed.

3.8.9. Weapon System Cost Factors Report In Then-Year Dollars Part D: Mission Summary (PCN: Q-H036C-S23-IR-8IR). *Depot Maintenance Weapon System Cost Data, (RCS: SAF-FMC(A&AR)8202), Schedule 2: FYxx-FYyy Cost Factors In Then Dollars.* This report is the same as Q-H036C-S10-IR-8IR, except that all costs are summarized (over the MDSs included in the report) by mission rather than by individual MDS, all costs are displayed in then-year dollars, and the average costs over the fiscal years are not displayed.

3.8.10. Weapon System Cost Factors Download Report.

Download Weapon System Cost Factors Report. This file is generated to satisfy Summary Database interrogations for weapon system costs, giving the user the option of receiving the Q-H036C-S10-IR-8IR series (i.e., S10, S11, S12, S13) or Q-H036C-S20-IR-8IR series report cost data on electronic media (floppy disk or CD-ROM) rather than on paper. All data from a single interrogation will be contained in one file, i.e., multiple MDSs, a range of years, and an entire report series may be in a single file. Available formats include ASCII, spreadsheet, or database file. Record descriptions are provided to the user when this file is requested.

a. Depot Repair and Condemnation Costs. Depot repair costs and condemnation costs for the weapon system MDS are displayed by work breakdown structure for each fiscal year included in the report.

b. Weapon System Work Breakdown Structure (WBS). For an aircraft report, the aircraft WBS identifications are displayed. Base

level support equipment WBS is not reported. For a missile report, the missile WBS identifications are displayed.

c. Fixed, Variable, and Condemnation Cost Totals. The total fixed and total variable depot repair costs, and total condemnation costs are displayed for the weapon system MDS for each fiscal year included in the report.

Figure 3.24. Weapon System Cost Factors Report In Constant-Year Dollars
Part A: MDS Summary

FMP	DEPOT MAINTENANCE WEAPON SYSTEM COST DATA (RCS: SAF-FMC(A&AR)8202)					12/17/99	Q-H036C-S10-IR-8IR	PAGE 1	
B052H	SCHEDULE S1: FY85 - FY91 COST FACTORS IN FY91 DOLLARS PART A: MDS SUMMARY					3511901 B052H		PAGE 1 OF 1	
FY84		FY85	FY86	FY87	FY88	FY89	FY90	FY91	AVERAGE
D M I F C O S T									
AIRCRAFT OVERHAUL ^b		56963828	57084701	48063060	46583774	71502939	58064835	53296900	55937148
ENGINE OVERHAUL		6240274	5808353	7282681	6868461	6761121	6592781	4564246	6302560
ENGINE ACCESSORIES		13922043	14992959	11501109	13837062	10092306	13473154	10603003	12631662
AIRCRAFT ACCESSORIES		27884650	29050609	34194823	27409140	25601676	30243182	24180448	28366361
AVIONICS INSTRUMENTATION		61487	47821	37906	41493	26127	48068	38629	43076
AVIONICS COMMUNICATION		535651	706640	1108292	944615	869674	1595498	1307100	1009639
AVIONICS NAVIGATION		17965235	23182213	22735697	14167820	11404336	13017789	8882558	15907950
ARMAMENT ACCESSORIES		103875	239118	1153293	1391017	1340202	1719044	1151500	1014007
C O N D E M N C O S T									
ENGINE ACCESSORIES ^b		12034139	21499881	10860860	7916880	8612072	8143293	6968118	10862178
AIRCRAFT ACCESSORIES		4324681	5933284	6195867	4160069	4247288	5902918	7340687	5443542
AVIONICS INSTRUMENTATION		0	1195	1640	362	373	1767	319	808
AVIONICS COMMUNICATION		102313	145001	120553	83295	253857	613195	258055	225181
AVIONICS NAVIGATION		4894047	5520792	5732837	4789142	4210665	17583095	13520605	8035883
ARMAMENT ACCESSORIES		16342	59251	68294	57298	92212	89212	17225	57119

^c FIXED DMIF COST		19035055	20456125	18892949	17444895	23365733	18461631	13978003	18804913
^d VARIABLE DMIF COST		104641988	110656289	107183912	93798487	104232648	106292720	90046381	102407489
^e NUMBER OF AIRCRAFT (TAI)		96	95	96	96	95	95	95	95
^f FLYING HOURS ^e		35996	34856	36535	33101	34644	34192	31898	34460
^f COMPOSITE DMIF \$/TAI		621026	649725	580059	525766	706011	657641	589259	618306
DMIF OVERHAUL \$/TAI		469748	475480	386714	385852	579424	506589	472399	467787
DMIF COMPONENT \$/TAI		151279	174245	193345	139914	126587	151052	116860	150518
COMPOSITE DMIF \$/FLY HR		1251	1404	1410	1309	1073	1281	1068	1260
DMIF ENGINE OH \$/FLY HR		154	144	181	183	170	163	126	160
DMIF COMPONENT \$/FLY HR		1097	1260	1228	1126	903	1119	942	1099
^c CONDEMNATION COST		21371522	33159404	22980051	17007046	17416467	32333480	28105009	24624711
^f COND COST/FLYING HOUR ^f		594	951	629	514	503	946	881	715
AFMC FUND ICS TOTAL COST		485749	5461722	N/A	N/A	N/A	N/A	N/A	2973736
AFMC FUND ICS DEPOT COST		N/A	N/A	667442	1780791	5495662	3752868	9521000	4243553
AFMC FUND ICS BASE COST		N/A	N/A	1444186	3083616	3319957	1098019	160000	1821156
^g REFERENCE THE REPORT FOREWORD OF THIS PRODUCT FOR IDENTITY OF SPECIFIC WEAPON SYSTEMS AND WBS CATEGORIES INCLUDED IN THIS RUN. COST TYPES: INCLUDE CLASS IV INCLUDE CLASS V INCLUDE ICS (INCLUDE CLS) INCLUDE BASELINE INCLUDE OFF-EQUIP INCLUDE ON-EQUIP									

d. Number of Aircraft (or Missiles). The inventory of the aircraft or missile MDS is displayed for each fiscal year included in the report. One of four possible inventory value options can be displayed per report. [Note: The cost per aircraft (missile) factors displayed in the report are based on this inventory option.] The inventory value options are:

- TAI - programmed Total Aerospace Vehicles Inventory
- PAA - programmed Primary Aerospace Vehicles Authorization
- PAI - programmed Primary Aerospace Vehicles Inventory
- OAC - average operating active aircraft inventory

e. Flying Hours. For an aircraft report, the actual flying hours of the MDS are displayed for each fiscal year included in the report. No flying hours are displayed on a missile report.

f. Cost Factors. For aircraft reports, the depot maintenance cost factors, and the condemnation "cost per aircraft flying hour" factor are shown for each fiscal year included in the report. The depot maintenance cost factors displayed are the composite "cost per aircraft" factor, the on-equipment overhaul "cost per aircraft" factor, the component "cost per aircraft" factor, the composite "cost per aircraft flying hour" factor, the on-equipment engine overhaul "cost per aircraft flying hour" factor, and the component "cost per aircraft flying hour" factor. Note that the composite cost factor is the sum of the on-equipment overhaul cost factor and the component cost factor. For missile reports, the depot maintenance "cost per missile" factor and the condemnation "cost per missile" factor are shown for each fiscal year included in the report. The CLS and ICS cost lines are printed only if the weapon system incurred AFMC-funded CLS or ICS cost for the fiscal years included in the report. [Note: Only CLS or ICS cost funded by AFMC is reported in WSCRS.]

- The "AFMC Fund ICS Total Cost" line is displayed for FY75-FY86 data. For those fiscal years, the AFMC-funded ICS cost displayed represents total ICS; there was no depot level and base level breakout of ICS costs available.
- The "AFMC Fund ICS Depot Cost" line is displayed for FY87 thru FY92 data. The AFMC-funded ICS cost displayed represents only the ICS performed at depot level.
- The "AFMC Fund ICS Base Cost" line is displayed for FY87 thru FY92 data. The ICS cost displayed represents only the ICS performed at base level.
- The "W/S AFMC-funded CLS Cost" line is displayed for FY75 thru FY89 data. The AFMC-funded CLS cost displayed represents cost incurred in support of CLS weapon system contracts.
- The "ENG AFMC-funded CLS Cost" line is displayed for FY75 thru FY89 data. The AFMC-funded CLS cost displayed represents cost incurred in support of CLS engine contracts.

g. Report Footnote Lines. The report footnote lines provide information to the user to identify the cost content of the report. The footnote lines are displayed at the end of each individual weapon system report. The "COST TYPES" line of the report footnote identifies if Class IV modification installation costs, Class V modification installation costs, ICS costs, CLS costs, baseline costs, off-equipment costs, or on-equipment repair costs are specifically included or excluded from the report cost content. If a particular cost type "included" is enclosed by parentheses, this means the weapon system did not incur that particular cost type in any fiscal year reported; if the cost type "included" is not enclosed by parentheses, this means that the weapon system did incur that particular cost type in one or more fiscal years reported, and that cost is included in the report.

3.8.11. Weapon System Cost Summary Report In Then-Year Dollars Part A: MDS Summary (PCN: Q-H036C-S40-IR-8IR). *Depot Maintenance Weapon System Cost Data, (RCS: SAF-FMC(A&AR)8202), Schedule 4: FYxx Cost Summary In FYzz Dollars.* The intent of this report is to provide an aircraft or missile weapon system subsystem summary of depot repair and condemnation costs for *one* fiscal year. Costs are summarized by weapon system work breakdown structure (WBS) level, and cost factors for the weapon system are displayed at both WBS level and weapon system level. This product's Report Foreword identifies the specific weapon systems included in the report, and shows the costs that are specifically included or excluded in the report cost content. This report contains four sections. Sections 1-3 are produced for aircraft MDS only, not for missile MDS. Section 4 is produced for both aircraft and missile MDS. [Note: The Q-H036C-S40-IR-8IR and Q-H036C-S30-IR-8IR reports are identical in format and content. The only difference is that the "S40" series is in "constant year" dollars, whereas the "S30" series is in "then year" dollars. For illustration purposes the Q-H036C-S40-IR-8IR is shown as the sample report.]

a. *Section 1: MDS Component Cost By WUC System* displays the *off-equipment* exchangeable item depot repair and condemnation costs for aircraft. The costs are summarized and itemized by two digit system level work unit code.

b. *Section 2: MDS Overhaul Cost* displays the *on-equipment* overhaul depot repair costs for aircraft. The costs are summarized and itemized by individual aircraft MDS or engine TMS.

c. *Section 3: MDS Work Breakdown Structure (WBS) Summary* displays the total aircraft off-equipment exchangeable item and on-equipment overhaul depot repair and condemnation costs for the fiscal year. The costs are summarized and itemized to the aircraft WBS level. Section 3 also displays the cost factors by WBS level.

d. *Section 4: MDS Work Breakdown Structure (WBS) Summary* displays the total off-equipment exchangeable item and on-equipment overhaul depot repair and condemnation weapon system costs. These costs are itemized by cost element for each WBS, and the cost factors are displayed at total weapon system level.

3.8.11.1. Q-H036C-S40-IR-8IR Section 1: MDS Component Cost By WUC System. This section reports only aircraft *off-equipment* exchangeable item costs. Section 1 of this report is generated for aircraft reports only; it is not generated for missile reports. Also, Section 1 of this report is generated only for the "Part A: MDS Summary" level; Section 1 is not generated for Parts B, C, D, and E. Reference Chapter 4 for a complete description of all computations. Some computations applicable to this report are described below for quick reference.

a. **Total WUC depot maintenance cost** is the sum of:

- Direct civilian labor cost
- Other direct civilian labor cost
- Direct military labor cost
- Other direct military labor cost
- Funded direct material cost
- Funded other direct cost
- Funded operations overhead cost
- Funded general and administrative (G&A) overhead cost (also defined as fixed overhead cost)
- Funded organic maintenance support cost
- Contract and interservice cost
- Government furnished material expense
- Funded government furnished services

b. **Fixed overhead depot maintenance cost** is equal to funded general and administrative (G&A) overhead cost.

c. **Variable WUC depot maintenance cost** is equal to total WUC cost minus fixed overhead cost.

Figure 3.25. Weapon System Cost Summary Report In Constant-Year Dollars
Part A: MDS Summary Section 1: MDS Component Cost By WUC System

FMP	(RCS: SAF-FMC(A&AR)8202)		DEPOT MAINTENANCE WEAPON SYSTEM COST DATA						(Q-H036C-S40-IR-B1R)		PAGE	1
WEAPON SYSTEM: B052H			SCHEDULE S4: FY91 COST SUMMARY IN FY91 DOLLARS									
			PART A : MDS SUMMARY						3511901 (12/17/99)			
			SECTION 1 : B052H COMPONENT COST BY WUC SYSTEM									
===== FY91 WEAPON SYSTEM PROGRAM DATA =====												
a	<-----INVENTORY----->							<---FLYING HOURS--->		WEAPON SYSTEM: B052H		
	TAI	PAA	PAI	BAA	BAI	RR	OAC	ACTUAL	PROGRAM	POPULAR NAME : STRATOFORTRESS		
	95	85	85	9	9	1	95	31898	31791			
===== WEAPON SYSTEM COMPONENT COST =====												
b	c	d	e		f	g	h	i	j	k		
WUC	DESCRIPTION	WBS	TOTAL COST		%	FIXED COST	%	VARIABLE COST	%	TOTAL COST		
11	AIRFRAME	AA	\$8,131,951		17.6	\$1,150,620		23.0		\$165,551		
12	FUSELAGE COMPARTMNTS	AA	\$767,357		1.7	\$109,447		2.2		\$72,727		
13	LANDING GEAR	AA	\$2,104,824		4.6	\$228,390		4.6		\$4,747,698		
14	FLIGHT CONTROLS	AA	\$3,467,473		7.5	\$577,199		11.5		\$68,581		
15	HELICOPTER ROTOR SYS	AA	\$0		0.0	\$0		0.0		\$0		
23	TURBOJET/FAN ENGINE	EA	\$10,603,003		23.0	\$1,168,661		23.3		\$6,902,408		
41	AIR COND. PRESS ICE	AA	\$468,764		1.0	\$36,626		0.7		\$275,599		
42	ELEC POWER SUPPLY	AA	\$2,212,278		4.8	\$172,982		3.5		\$375,758		
44	LIGHTING SYSTEM	AA	\$22,389		0.0	\$2,568		0.1		\$3,828		
45	HYD & PNEU POWER	AA	\$385,024		0.8	\$17,993		0.4		\$81,978		
46	FUEL SYSTEM	AA	\$1,170,505		2.5	\$110,359		2.2		\$119,618		
47	OXYGEN SYSTEM	AA	\$211,964		0.5	\$16,153		0.3		\$16,906		
49	MISC UTILITIES	AA	\$42,789		0.1	\$4,470		0.1		\$14,354		
51	GENERAL INSTRUMENTS	AA	\$741,582		1.6	\$99,391		2.0		\$69,538		
52	AUTOPILOT	AA	\$328,764		0.7	\$43,024		0.9		\$20,734		
55	MADARS	VI	\$4,394		0.0	\$621		0.0		\$0		
58	IN-FLIGHT TEST EQUIP	VI	\$34,235		0.1	\$6,160		0.1		\$319		
61	HF COMM SYS	VC	\$1,061,881		2.3	\$129,616		2.6		\$141,627		
63	UHF COMM SYS	VC	\$21,438		0.0	\$4,397		0.1		\$78,469		
64	INTERPHONE SYSTEM	VC	\$4,532		0.0	\$754		0.0		\$3,190		
65	IFF	VC	\$121,748		0.3	\$21,498		0.4		\$29,346		
69	MISC COMM	VC	\$97,501		0.2	\$14,982		0.3		\$5,423		
71	RADIO NAVIGATION	VN	\$14,062		0.0	\$2,037		0.0		\$2,871		
72	RADAR NAVIGATION	VN	\$34,469		0.1	\$4,437		0.1		\$3,828		
73	BOMBING NAVIGATION	VN	\$3,149,313		6.8	\$290,554		5.8		\$7,195,870		
74	FIRE CONTROL	VN	\$2,199,088		4.8	\$234,914		4.7		\$66,986		
75	WEAPON DELIVERY	AR	\$1,151,500		2.5	\$99,788		2.0		\$17,225		
76	ECM	VN	\$3,485,625		7.6	\$336,515		6.7		\$6,251,051		
77	PHOTO/RECONN	AA	\$4,039,911		8.8	\$113,240		2.3		\$1,307,818		
95	SMOKE GENERATOR EQP	AA	\$84,876		0.2	\$12,338		0.2		\$0		
XX	ALL OTHERS		\$0		0.0	\$0		0.0		\$65,710		
XX	m *** TOTAL ***		\$46,163,240		100.0	\$5,009,734		100.0		\$41,153,506		
										\$28,105,011		

a. Fiscal Year Weapon System Program Data. The aircraft programmed flying hours and inventories, and actual flying hours and inventory for the fiscal year are displayed. The aircraft popular name is displayed only in the "Part A: MDS Summary" level report. The program data displayed are:

- TAI - the aircraft programmed total aerospace vehicles inventory in the fiscal year.
- PAA - the aircraft programmed primary aerospace vehicles authorization in the fiscal year.
- PAI - the aircraft programmed primary aerospace vehicles inventory in the fiscal year.
- BAA - the aircraft programmed backup aerospace vehicles authorization in the fiscal year.
- BAI - the aircraft programmed backup aerospace vehicles inventory in the fiscal year.
- RR - the aircraft programmed aerospace vehicles reconstitution reserve inventory in the fiscal year. (Formerly called BAI-AR.)
- OAC - the aircraft average operating active inventory in the fiscal year.
- Actual Flying Hours - the aircraft actual flying hours in the fiscal year.
- Programmed Flying Hours - the aircraft programmed flying hours in the fiscal year.

b. WUC. Identifies the aircraft two-digit system-level work unit code (SWUC).

c. Description. Descriptive nomenclature of the aircraft SWUC.

d. WBS. Work breakdown structure (WBS) group associated with the aircraft SWUC. (Reference Attachment 3 for the WBS descriptions).

e. WUC Total Cost. Total aircraft exchangeable item off-equipment depot repair cost in the SWUC system in the fiscal year.

f. WUC Total Cost Percent. Percent of total aircraft exchangeable item off-equipment depot repair cost attributable to the SWUC.

g. WUC Fixed Cost. Fixed exchangeable item off-equipment overhead cost in the SWUC system in the fiscal year.

h. WUC Fixed Cost Percent. Percent of fixed exchangeable item off-equipment overhead cost attributable to the SWUC.

i. WUC Variable Cost. Variable exchangeable item off-equipment depot repair cost in the SWUC system for the fiscal year.

j. WUC Variable Cost Percent. Percent of variable exchangeable item off-equipment depot repair cost attributable to the SWUC.

k. WUC Condemnation Total Cost. Base level and depot level exchangeable item condemnation cost in the SWUC system in the fiscal year.

l. WUC Condemnation Cost Percent. Percent of total MDS exchangeable item condemnation cost attributable to the SWUC.

m. Component Cost Totals. The total exchangeable item off-equipment depot repair and condemnation cost on the aircraft in the fiscal year.

3.8.11.2. Q-H036C-S40-IR-8IR Section 2: MDS Overhaul Cost. This section reports only *on-equipment* overhaul depot maintenance costs. Section 2 is generated for aircraft reports only (i.e., not for missile reports). Also, Section 2 of this report is generated only for the “Part A: MDS Summary” level; Section 2 is not generated for Parts B, C, D, and E. Reference Chapter 4 for a complete description of all computations. Some computations applicable to this report are described below for quick reference.

a. **Total depot maintenance cost** is the sum of:

- Direct civilian labor cost
- Other direct civilian labor cost
- Direct military labor cost
- Other direct military labor cost

- Funded direct material cost
- Funded other direct cost
- Funded operations overhead cost
- Funded general and administrative (G&A) overhead cost (also defined as fixed overhead cost)
- Funded organic maintenance support cost
- Contract and interservice cost
- Government furnished material expense
- Funded government furnished services

b. **Fixed overhead depot maintenance cost** is equal to funded general and administrative (G&A) overhead cost.

c. **Variable depot maintenance cost** is equal to total depot maintenance cost minus fixed overhead cost.

Figure 3.26. Weapon System Cost Summary Report In Constant-Year Dollars
Part A, Section 2: MDS Overhaul Cost

FMP	(RCS: SAF-FMC(A&AR)8202)				DEPOT MAINTENANCE WEAPON SYSTEM COST DATA				(Q-H036C-S40-IR-8IR)				PAGE	2		
WEAPON SYSTEM: B052H				SCHEDULE S4: FY91 COST SUMMARY IN FY91 DOLLARS								3511901 (12/17/99)				
				PART A : MDS SUMMARY												
				SECTION 2 : B052H OVERHAUL COST												
===== FY91 WEAPON SYSTEM PROGRAM DATA =====																
a	<-----INVENTORY----->				<---FLYING HOURS--->				WEAPON SYSTEM: B052H							
	TAI	PAA	PAI	BAA	BAI	RR	OAC	ACTUAL	PROGRAM	POPULAR NAME : STRATOFORTRESS						
	95	85	85	9	9	1	95	31898	31791							
===== WEAPON SYSTEM OVERHAUL COST =====																
	b	MDS/TMS		c	WBS	d	TOTAL COST		e	%	f	FIXED COST		g	%	
		B052H			AF		\$53,296,900			92.1		\$8,418,972			93.9	
		TF0033003			EO		\$52,692			0.1		\$8,511			0.1	
		TF0033103			EO		\$4,511,554			7.8		\$540,783			6.0	
	f	*** TOTAL					\$57,861,146			100.0		\$8,968,266			100.0	
	g	>>> INFO: B052H		AFMC FUNDED ICS		DEPOT LEVEL COSTS ARE		\$9,521,000		<<<						
		>>> INFO: B052H		AFMC FUNDED ICS		BASE LEVEL COSTS ARE		\$160,000		<<<						

a. Fiscal Year Weapon System Program Data. The aircraft programmed flying hours and inventories, and actual flying hours and inventory for the fiscal year are displayed. The aircraft popular name is displayed only in the “Part A: MDS Summary” level report.

b. MDS/TMS. Identifies the aircraft MDS or the engine TMS overhauled.

c. WBS. Work breakdown structure (WBS) group code associated with the MDS or TMS on-equipment overhaul. (Reference Attachment 3 for the WBS descriptions).

d. Total, Fixed, Variable Costs. Total on-equipment depot repair costs, total fixed on-equipment depot overhead costs, and total vari-

able on-equipment depot repair costs associated with each overhauled aircraft or engine.

e. Total, Fixed, Variable Cost Percents. Percent of total, fixed, and variable on-equipment depot overhaul costs attributable to each aircraft or engine listed.

f. On-Equipment Overhaul Cost Totals. Total, fixed, and variable on-equipment depot overhaul costs for the total aircraft.

g. ICS and CLS Costs. The AFMC-funded ICS-Depot Level, ICS-Base Level, and CLS costs for the aircraft in the fiscal year are displayed for information purposes only. The information lines are displayed only if the aircraft incurred those costs in the fiscal year reported. These ICS and CLS costs are not included in the total cost

3.8.11.3. Q-H036C-S40-IR-8IR Section 3: MDS Work Breakdown Structure (WBS) Summary. This section reports depot maintenance costs for both *off-equipment* exchangeable item and *on-equipment* overhaul. Section 3 of the report is generated for aircraft reports only; it is not generated for missile reports. Also, Section 3 of this report is generated only for the “Part A: MDS Summary” level; Section 3 is not generated for Parts B, C, D, and E. Reference Chapter 4 for a complete description of all computations. Some computations applicable to this report are shown below for quick reference.

a. WBS Inventory Related Cost Factors:

$$\text{WBS Depot Maintenance \$ / Aircraft} = \frac{(\text{WBS Variable Cost})(\text{WBS}\%_{\text{INV}})}{\text{INV}}$$

where

$$\text{WBS}\%_{\text{INV}} = \% \text{ value as shown in Chapter 4, Table 4.I}$$

$$\text{INV} = \text{the TAI, PAA, PAI, or OAC inventory value}$$

b. WBS Usage Related Cost Factors:

$$\text{WBS Depot Maintenance \$ / FH} = \frac{(\text{WBS Variable Cost})(\text{WBS}\%_{\text{FH}})}{\text{MDSFH}}$$

where

$$\text{WBS}\%_{\text{FH}} = \% \text{ value as shown in Chapter 4, Table 4.I}$$

$$\text{MDSFH} = \text{MDS flying hours in the fiscal year}$$

c. WBS Condemnation Cost Factors:

$$\text{WBS Condemnation \$ / FH} = \frac{\text{WBS Condemnation Cost}}{\text{MDSFH}}$$

Figure 3.27. Weapon System Cost Summary Report In Constant-Year Dollars
Part A, Section 3: MDS WBS Summary

FMP	(RCS: SAF-FMC(A&AR)8202)				DEPOT MAINTENANCE WEAPON SYSTEM COST DATA					(Q-H036C-S40-IR-8IR)		PAGE	3
WEAPON SYSTEM: B052H				SCHEDULE S4: FY91 COST SUMMARY IN FY91 DOLLARS					3511901 (12/17/99)				
				PART A : MDS SUMMARY									
				SECTION 3 : B052H WORK BREAKDOWN STRUCTURE (WBS) SUMMARY									
===== FY91 WEAPON SYSTEM PROGRAM DATA =====													
a	<-----INVENTORY----->					<--FLYING HOURS-->		WEAPON SYSTEM: B052H					
	TAI	PAA	PAI	BAA	BAI	RR	OAC	ACTUAL	PROGRAM	POPULAR NAME : STRATOFORTRESS			
	95	85	85	9	9	1	95	31898	31791				
<-----DEPOT MAINTENANCE INDUSTRIAL FUND----->													
b	<-----DEPOT MAINTENANCE INDUSTRIAL FUND----->					<-----CONDEMNATION----->							
	c	TOTAL COST		c	FIXED COST		c	VARIABLE COST		d	\$/TAI	d	\$/FH
		TOTAL COST			FIXED COST			VARIABLE COST			\$/TAI		\$/FH
	AF	\$53,296,900			\$8,418,972			\$44,877,928			\$472,399		\$0
	EO	\$4,564,246			\$549,294			\$4,014,952			\$0		\$126
	EA	\$10,603,003			\$1,168,661			\$9,434,342			\$0		\$296
	AA	\$24,180,451			\$2,694,800			\$21,485,651			\$79,158		\$438
	VI	\$38,629			\$6,781			\$31,848			\$117		\$1
	VC	\$1,307,100			\$171,247			\$1,135,853			\$4,185		\$23
	VN	\$8,882,557			\$868,457			\$8,014,100			\$29,526		\$163
	AR	\$1,151,500			\$99,788			\$1,051,712			\$3,875		\$21
e	TO	\$104,024,386			\$13,978,000			\$90,046,386			\$589,259		\$1,067
f >>> INFO: B052H AFMC FUNDED ICS DEPOT LEVEL COSTS ARE \$9,521,000 <<<													
>>> INFO: B052H AFMC FUNDED ICS BASE LEVEL COSTS ARE \$160,000 <<<													

a. Fiscal Year Weapon System Program Data. The aircraft programmed flying hours and inventories, and actual flying hours and inventory for the fiscal year are displayed. The aircraft popular name is displayed only in the “Part A: MDS Summary” level report.

b. WBS. Work breakdown structure (WBS) group codes for aircraft. (Reference Attachment 3 for the WBS descriptions).

c. WBS Total, Fixed, Variable, Condemnation Costs. The total, fixed, and variable depot repair costs, and the total condemnation costs, by aircraft work breakdown structure.

d. WBS Level Cost Factors. *Variable* depot repair “cost per aircraft” and “cost per aircraft flying hour” factors by aircraft WBS, and condemnation “cost per aircraft flying hour” factor by aircraft WBS. The “cost per aircraft” factors can be based on either TAI, PAA, PAI, or OAC inventory options, but only one inventory option can be dis-

played per report. The “cost per aircraft flying hour” factors are based on actual flying hours, not programmed flying hours.

e. Cost Totals. Total, fixed, and variable depot repair costs, and total condemnation costs over all aircraft WBS. The WBS level depot repair “cost per aircraft” and “cost per aircraft flying hour” factors, and the WBS level condemnation “cost per aircraft flying hour” factor are summed to get the total MDS level “cost per aircraft” and “cost per aircraft flying hour” factors.

f. ICS and CLS Costs. The AFMC-funded ICS-Depot Level, ICS-Base Level, and CLS costs for the aircraft in the fiscal year are displayed for information purposes only. The information lines are displayed only if the aircraft incurred those costs in the fiscal year reported. These ICS and CLS costs are not included in the cost factors and the total cost line.

3.8.11.4. Q-H036C-S40-IR-8IR Section 4: MDS WBS Cost Elements. This section displays the total *off-equipment* exchangeable item and *on-equipment* overhaul depot repair and condemnation weapon system costs. This product's Report Foreword identifies the specific weapon systems included in the report, and shows the costs that are specifically included or excluded in the report cost content. These costs are itemized by cost element for each WBS, and the cost factors are displayed at weapon system level. Section 4 is produced for both aircraft and missiles, in contrast to Sections 1, 2, and 3 which are produced only for aircraft. Reference Chapter 4 for a complete description of all computations.

a. Fiscal Year Weapon System Program Data. The aircraft or missile weapon system's programmed flying hours and inventories, and actual flying hours and inventory for the fiscal year. The weapon system's popular name is displayed only in "Part A: MDS Summary".

b. WBS group codes. For an aircraft or missile report, the aircraft or missile WBS group codes are displayed. The base level support equipment WBS group is not reported.

c. WBS Repair Costs. The weapon system's depot repair and condemnation costs are summarized and displayed for each WBS group. These WBS depot repair costs are itemized by:

- 1) Direct civilian labor cost.
- 2) Other direct civilian labor cost. Shows depot field team labor.
- 3) Direct military labor cost.
- 4) Other direct military labor cost. Shows depot field team labor.

- 5) Direct material cost.
- 6) Unfunded direct material cost-investment. Material issued for replacement of missing exchangeable items on an assembly. [Note: Unfunded costs are not an expense to the DMIF.]
- 7) Unfunded direct material cost-exchange.
- 8) Unfunded direct material cost-modification kit.
- 9) Unfunded direct material cost-expense. Material issued without charge to the DMIF from the AF Stock Fund, and material furnished by the customer.
- 10) Other direct cost.
- 11) Unfunded other direct cost.
- 12) Operations overhead cost.
- 13) Unfunded operations overhead cost.
- 14) G&A overhead costs. Shows the depot fixed overhead cost.
- 15) Unfunded G&A overhead costs.
- 16) Maintenance support costs.

Figure 3.28. Weapon System Cost Summary Report In Constant-Year Dollars
Part A, Section 4: MDS WBS Cost Elements

FMP	(RCS: SAF-FMC(A&AR)8202)				DEPOT MAINTENANCE WEAPON SYSTEM COST DATA				(Q-H036C-S40-IR-8IR)				PAGE 4				
WEAPON SYSTEM:		B052H		SCHEDULE S4: FY91 COST SUMMARY IN FY91 DOLLARS								3511901 (12/17/99)					
				PART A : MDS SUMMARY													
				SECTION 4 : B052H WBS COST ELEMENTS													
***** FY91 WEAPON SYSTEM PROGRAM DATA *****																	
* <-----INVENTORY-----> <--FLYING HOURS--> WEAPON SYSTEM: B052H																	
* TAI PAA PAI BAA BAI RR OAC ACTUAL PROGRAM POPULAR NAME : STRATOFORTRESS																	
* 95 85 85 9 9 1 95 31898 31791																	

		(AF)		(EO)		(EA)		(AA)		(VI)		(VC)		(VN)		(AR)	
		AIRCRAFT		ENGINE		ENGINE		AIRCRAFT		AVIONICS		AVIONICS		AVIONICS		ARMAMENT	
		OVERHAUL		OVERHAUL		ACCESSORIES		ACCESSORIES		INSTRUMENT		COMMUNICATION		NAVIGATION			
		C															
DIRECT CIV LABOR CST		16,768,757		1,293,262		2,606,639		5,669,495		14,002		377,408		1,970,647		208,851	
OT DIR CIV LABOR CST		30,508		0		0		2,578		1,987		5,624		13,376		512	
DIRECT MIL LABOR CST		7,773		0		0		2,202		0		0		0		0	
OT DIR MIL LABOR CST		5,023		0		0		2		0		0		0		0	
DIRECT MATERIAL CST		5,516,497		1,371,237		3,285,499		9,707,005		4,062		387,868		2,047,801		70,670	
UF DIR MATL INV CST		-12,592,655		7,982,989		129,726		117,415		310		71,548		694,439		0	
UF DIR MATL EXC CST		10,724,423		10,534,575		1,244,409		881,649		1		80,594		3,595,679		0	
UF DIR MATL MOD KIT		31,911,364		0		-2,351		1,744,667		0		596,574		409,149		0	
UF DIR MATL EXP CST		0		0		0		56		109		0		0		0	
OTHER DIRECT CST		24,790		0		0		1,440		520		548		5,316		18	
UF OT DIRECT CST		0		0		0		0		0		0		0		0	
OPER OVERHEAD CST		21,278,020		1,350,453		2,014,800		5,741,462		10,828		334,267		1,715,655		178,733	
UF OPER OVERHEAD		975,457		134,128		359,588		497,560		1,265		96,495		474,679		15,628	
GEN & ADMIN CST		8,418,972		549,294		1,168,661		2,694,801		6,782		171,247		868,458		99,788	
UF GEN & ADMIN CST		2,789,646		219,855		451,930		821,534		671		48,374		284,969		24,010	
MAINT SUPPORT CST		0		0		0		0		0		0		0		0	
UF MAINT SUPPT CST		0		0		0		0		0		0		0		0	
**TOTAL ORGANIC CST		52,050,340		4,564,246		9,075,599		23,818,985		38,181		1,276,962		6,621,253		558,572	
CONTRACT/INTERSERVICE		1,228,138		0		1,421,719		349,834		450		29,726		2,126,228		540,419	
GFM - INVESTMENT		0		0		0		-255		0		0		3,185		0	
GFM - EXCHANGE		0		0		0		0		0		0		4,682		540	
GFM - MOD KITS		0		0		448		0		0		0		0		0	
GFM - EXPENSE		0		0		68,222		7,940		9		73		110,490		52,456	
GOVT FURN SERVICES		18,422		0		37,463		3,689		-11		339		24,587		53	
UF GOVT FURN SERV		0		0		0		0		0		0		0		0	
**TOTAL CONTRACT CST		1,246,560		0		1,527,404		361,463		448		30,138		2,261,305		592,928	
****TOTAL MAINT CST		53,296,900		4,564,246		10,603,003		24,180,448		38,629		1,307,100		8,882,558		1,151,500	
*-*CONDEMNATION CST		0		0		6,968,118		7,340,687		319		258,055		13,520,605		17,225	
DIR CIV LABOR HRS		1,076,590		64,748		132,432		322,199		673		17,967		98,129		11,061	
OT DIR CIV LABOR HRS		1,871		0		0		104		82		236		526		22	
DIR MIL LABOR HRS		346		0		0		74		0		0		0		0	
OT DIR MIL LABOR HRS		242		0		0		0		0		0		0		0	
***** WEAPON SYSTEM COST FACTORS *****																	
* B052H FIXED DMIF COST		\$13,978,003		COMPOSITE DMIF \$/TAI		\$589,259		COMPOSITE DMIF \$/FLYING HR		\$1,068		*					
* VARIABLE DMIF COST		\$90,046,381		DMIF OVERHAUL \$/TAI		\$472,399		DMIF ENGINE OH \$/FLYING HR		\$126		*					
* NUMBER OF AIRCRAFT (TAI)		95		DMIF COMPONENT \$/TAI		\$116,860		DMIF COMPONENT \$/FLYING HR		\$942		*					
* ACTUAL FLYING HOURS		31,898		CONDEMNATION COST		\$28,105,009		COND COST/FLYING HR		\$881		*					

INFO: B052H AFMC FUNDED ICS DEPOT LEVEL COSTS ARE \$9,521,000 , ICS BASE LEVEL COSTS ARE \$160,000 .																	
REFERENCE THE REPORT FOREWORD OF THIS PRODUCT FOR IDENTITY OF SPECIFIC WEAPON SYSTEMS AND WBS CATEGORIES INCLUDED IN THIS RUN. COST TYPES: INCLUDE CLASS IV INCLUDE CLASS V INCLUDE ICS (INCLUDE CLS) INCLUDE BASELINE INCLUDE OFF-EQUIP INCLUDE ON-EQUIP																	

- 17) Unfunded maintenance support costs.
- 18) Total organic costs. Sum of costs 1 - 5, 10, 12, 14, and 16 above.
- 19) Depot contract and interservice costs.
- 20) Government furnished material-investment.
- 21) Government furnished material-exchange.
- 22) Government furnished material-modification kit.
- 23) Government furnished material-expense.
- 24) Government furnished services.
- 25) Unfunded government furnished services.
- 26) Total contract costs. Sum of cost elements 19, 23 and 24 above.
- 27) Total depot repair costs. Sum of cost elements 18 and 26 above.
- 28) Total condemnation costs.
- 29) Organic direct civilian labor hours.
- 30) Organic other direct civilian labor hours. This represents depot field team labor hours.
- 31) Organic direct military labor hours.
- 32) Organic other direct military labor hours. This represents depot field team labor hours.

d. Fixed, Variable, and Condemnation Total Costs. Total fixed depot overhead cost, total variable depot repair costs, and total condemnation costs for the weapon system.

e. Number of Aircraft. Inventory of the weapon system in the fiscal year. The report can display either the TAI, PAA, PAI, or OAC inventory options, but only one inventory option can be displayed per report.

f. Actual Flying Hours. Actual flying hours during the fiscal year.

g. Cost Factors. For an aircraft report, the depot maintenance cost factors and the condemnation cost per flying hour factor are displayed. The depot maintenance "cost per aircraft" factors are: "composite cost per aircraft", "on-equipment overhaul cost per aircraft", and "component cost per aircraft". The depot maintenance "cost per aircraft flying hour" factors displayed are: "composite cost per aircraft flying hour", the "on-equipment engine overhaul cost per aircraft flying hour", and "component cost per aircraft flying hour". The "composite" cost factor is the sum of "on-equipment overhaul" and "component" cost factors. For a missile report, the depot maintenance "cost per missile" factor and the condemnation "cost per missile" factor are displayed.

h. ICS and CLS Costs. The AFMC-funded ICS-Depot Level, ICS-Base Level, and CLS costs are displayed for information purposes only. The information lines are displayed on the report only if the weapon system incurred ICS or CLS costs in the fiscal year reported. The ICS and CLS costs are not included in the cost factors.

i. Report Footnote Lines. The footnote lines identify the report cost content, and are displayed at the end of each weapon system report. The "COST TYPES" line of the footnote shows if Class IV modification installation costs, Class V modification installation costs, ICS costs, CLS costs, baseline costs, off-equipment costs, or on-equipment repair costs are specifically included or excluded from the report cost content. If a cost type "included" is enclosed in parentheses, this means the weapon system did not incur that particular cost type in the fiscal year reported; if the cost type "included" is not enclosed by parentheses, this means the weapon system did incur that particular cost type in the fiscal year reported, and that cost is included in the report.

3.8.12. Weapon System Cost Summary Report In Constant-Year Dollars Part B: Modified Fleet Summary (PCN: Q-H036C-S41-IR-8IR). *Depot Maintenance Weapon System Cost Data, (RCS: SAF-FMC(A&AR)8202), Schedule 4: FYxx Cost Summary In FYzz Dollars.* This report is the same as Q-H036C-S40-IR-8IR, except costs are summarized (over included MDSs) by modified fleet rather than individual MDS.

3.8.13. Weapon System Cost Summary Report In Constant-Year Dollars Part C: Fleet Summary (PCN: Q-H036C-S42-IR-8IR). *Depot Maintenance Weapon System Cost Data, (RCS: SAF-FMC(A&AR)8202), Schedule 4: FYxx Cost Summary In FYzz Dollars.* This report is the same as Q-H036C-S40-IR-8IR, except costs are summarized (over included MDSs) by fleet rather than individual MDS.

3.8.14. Weapon System Cost Summary Report In Constant-Year Dollars Part D: Mission Summary (PCN: Q-H036C-S43-IR-8IR). *Depot Maintenance Weapon System Cost Data, (RCS: SAF-FMC(A&AR)8202), Schedule 4: FYxx Cost Summary In FYzz Dollars.* This report is the same as Q-H036C-S40-IR-8IR, except costs are summarized (over included MDSs) by mission rather than individual MDS.

3.8.15. Weapon System Cost Summary Report In Constant-Year Dollars Part E: Grand Total Summary (PCN: Q-H036C-S44-IR-8IR). *Depot Maintenance Weapon System Cost Data, (RCS: SAF-FMC(A&AR)8202), Schedule 4: FYxx Cost Summary In FYzz Dollars.* This report is the same as Q-H036C-S40-IR-8IR, except costs are summarized (over included MDSs) by all aircraft or all missiles, rather than individual MDS.

3.8.16. Weapon System Cost Summary Report In Then-Year Dollars Part A: MDS Summary (PCN: Q-H036C-S30-IR-8IR). *Depot Maintenance Weapon System Cost Data, (RCS: SAF-ACC(A&AR)8202), Schedule 3: FYxx Cost Summary In FYxx Dollars.* This report is the same as Q-H036C-S40-IR-8IR, except all costs are displayed in then-year dollars.

3.8.17. Weapon System Cost Summary Report In Then-Year Dollars Part B: Modified Fleet Summary (PCN: Q-H036C-S31-IR-8IR). *Depot Maintenance Weapon System Cost Data, (RCS: SAF-ACC(A&AR)8202), Schedule 3: FYxx Cost Summary In FYxx Dollars.* This report is the same as Section 4 of Q-H036C-S40-IR-8IR, except costs are summarized (over included MDSs) by modified fleet rather than by individual MDS, and all costs are displayed in then-year dollars.

3.8.18. Weapon System Cost Summary Report In Then-Year Dollars Part C: Fleet Summary (PCN: Q-H036C-S32-IR-8IR). *Depot Maintenance Weapon System Cost Data, (RCS: SAF-ACC(A&AR)8202), Schedule 3: FYxx Cost Summary In FYxx Dollars.* This report is the same as Section 4 of Q-H036C-S40-IR-8IR, except costs are summarized (over included MDSs) by fleet rather than by individual MDS, and all costs are displayed in then-year dollars.

3.8.19. Weapon System Cost Summary Report In Then-Year Dollars Part D: Mission Summary (PCN: Q-H036C-S33-IR-8IR). *Depot Maintenance Weapon System Cost Data, (RCS: SAF-ACC(A&AR)8202), Schedule 3: FYxx Cost Summary In FYxx Dollars.* This report is the same as Section 4 of Q-H036C-S40-IR-8IR, except costs are summarized (over included MDSs) by mission rather than individual MDS, and all costs are displayed in then-year dollars.

3.8.20. Weapon System Cost Summary Report In Then-Year Dollars Part E: Grand Total Summary (PCN: Q-H036C-S34-IR-8IR). *Depot Maintenance Weapon System Cost Data, (RCS: SAF-ACC(A&AR)8202), Schedule 3: FYxx Cost Summary In FYxx Dollars.* This report is the same as Section 4 of Q-H036C-S40-IR-8IR, except costs are summarized (over included MDSs) by all aircraft or all missiles, rather than by individual MDS, and all costs are displayed in then-year dollars.

3.8.21. Weapon System Cost Summary Download Report.

Download Weapon System Cost Summary Report. This file is generated to satisfy Summary Database interrogations for weapon system cost, giving the user the option of receiving the Q-H036C-S40-IR-8IR series (i.e., S40, S41, S42, S43, S44) or Q-H036C-S30-IR-8IR series report cost data on electronic media (floppy disk or CD-ROM) rather than on paper. All data from a single interrogation will be contained in one file, i.e., multiple MDSs, a range of years, and an entire report series may be in a single file. Available formats include ASCII, spreadsheet, or database file. Record descriptions are provided to the user when this file is requested.

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3.8.22. Engine Cost Factors Report in Constant-Year Dollars Part A: TMS (Individual) Summary (PCN: Q-H036C-S50-IR-8IR). *Depot Maintenance Weapon System Cost Data, RCS: SAF-ACC(A&AR)8202, Schedule 5: FYxx-FYyy Engine Cost Factors, All Costs In FYzz Dollars.* The intent of this report is to provide a summary of engine depot repair and condemnation costs for any number of fiscal years. The report can be used for studying cost trends of the engine and for analyzing engine life cycle cost. This report produces a multiple fiscal year summary of historical depot repair and condemnation costs for a specific engine. Costs and cost factors are displayed in constant-year dollars with up to eight fiscal years of data displayed per page. The “average cost” is also displayed on the report. All engine cost factor information is displayed by fiscal year. This product’s Report Foreword identifies the specific engine(s) included in the interrogation and shows the type costs that are specifically included or excluded on the report. Reference Chapter 4 for a complete description of all computations.

3.8.23. Engine Cost Factors Report in Constant-Year Dollars Part B: TMS (Grouped) Summary (PCN: Q-H036C-S51-IR-8IR). *Depot Maintenance Weapon System Cost Data, RCS: SAF-ACC(A&AR)8202, Schedule 5: FYxx-FYyy Engine Cost Factors, All Costs In FYzz Dollars.* This report is the same as Q-H036C-S50-IR-8IR, except costs are summarized (over the TMSs included in the report) for a complete engine series rather than by individual engine. For example, a report for J0079017 engines may include costs for the J0079017A, J0079017C, J0079017E, J0079017F, and J0079017G engines.

3.8.24. Engine Cost Factors Report in Constant-Year Dollars Part C: TMS (Family) Summary (PCN: Q-H036C-S52-IR-8IR). *Depot Maintenance Weapon System Cost Data, RCS: SAF-ACC(A&AR)8202, Schedule 5: FYxx-FYyy Engine Cost Factors, All Costs In FYzz Dollars.* This report is the

same as Q-H036C-S50-IR-8IR, except costs are summarized (over the TMSs included in the report) for an entire engine family rather than by individual engine. For example, a report for the T0056 engine family may include costs for all T0056007, all T0056009, and all T0056015 engines.

3.8.25. Engine Cost Factors Report in Then-Year Dollars Part A: TMS (Individual) Summary (PCN: Q-H036C-S60-IR-8IR). *Depot Maintenance Weapon System Cost Data, RCS: SAF-ACC(A&AR)8202, Schedule 6: FYxx-FYyy Engine Cost Factors, All Costs In Then Dollars.* This report is the same as Q-H036C-S50-IR-8IR, except all costs are displayed in then-year dollars and the average costs over the fiscal years are not displayed.

3.8.26. Engine Cost Factors Report in Then-Year Dollars Part B: TMS (Grouped) Summary (PCN: Q-H036C-S61-IR-8IR). *Depot Maintenance Weapon System Cost Data, RCS: SAF-ACC(A&AR)8202, Schedule 6: FYxx-FYyy Engine Cost Factors, All Costs In Then Dollars.* This report is the same as Q-H036C-S50-IR-8IR, except all costs are displayed in then-year dollars, the average costs over the fiscal years are not displayed, and costs are summarized (over the TMSs included in the report) for a complete engine series rather than by individual engine.

3.8.27. Engine Cost Factors Report in Then-Year Dollars Part C: TMS (Family) Summary (PCN: Q-H036C-S62-IR-8IR). *Depot Maintenance Weapon System Cost Data, RCS: SAF-ACC(A&AR)8202, Schedule 6: FYxx-FYyy Engine Cost Factors, All Costs In Then Dollars.* This report is the same as Q-H036C-S50-IR-8IR, except all costs are displayed in then-year dollars, the average costs over the fiscal years are not displayed, and costs are summarized (over the TMSs included in the report) for an entire engine family rather than by individual engine.

3.8.28. Engine Cost Factors Download Report. *Download Engine Cost Factors Report.* This file is generated to satisfy Summary Database interrogations for engine cost, giving the user the option of receiving the Q-H036C-S50-IR-8IR series (i.e., S50, S51, S52) or Q-H036C-S60-IR-8IR series report cost data on electronic media (floppy disk or CD-ROM) rather than on paper. All data from a single interrogation will be contained in one file, i.e., multiple TMSs, a range of years, and an entire report series may be in a single file. Available formats include ASCII, spreadsheet, or database file. Record descriptions are provided to the user when this file is requested.

a. Fixed DMIF Cost. Fixed depot overhead costs for engine overhaul, engine accessories, and total. Fixed overhead cost is the sum of Funded General & Administrative (G&A) cost elements.

b. Variable DMIF Cost. The variable depot repair costs for engine overhaul and engine accessories are displayed. The variable costs are itemized by organic labor, organic material, organic other, and contract costs.

- Org Labor. Organic labor costs are the sum of direct civilian labor cost, other direct civilian labor cost, direct military labor cost, and other direct military labor cost elements.
- Org Material. Organic material costs are the sum of the direct material cost elements.

- Org Other. Organic other costs are calculated as the sum of funded other direct cost, funded operations overhead cost, and funded organic maintenance support cost elements.
- Contract. Contract costs are the sum of contractor/interservice cost, GFM-expense cost, and funded GFS cost elements. ICS and CLS are not included in this cost. If the engine has any ICS or CLS costs in a fiscal year, those ICS or CLS costs are reported in the “AFMC-funded ICS or CLS Cost” line (see below).

c. Total Organic Cost. Total variable organic cost is calculated as the sum of the variable organic labor costs, organic material costs, and organic other costs, for both engine overhaul and engine accessories.

Figure 3.29. Engine Cost Factors Report in Constant-Year Dollars
Part A: TMS (Individual) Summary

FMP	RCS:SAF-FMC(A&AR)8202	DEPOT MAINTENANCE ENGINE COST DATA SCHEDULE S5: FY85 - FY91 ENGINE COST FACTORS PART A: TMS (INDIVIDUAL) SUMMARY ALL COSTS IN FY91 DOLLARS				Q-H036C-S50-IR-8IR 3511902 (12/17/99)		REPORT PAGE 1		
TMS ENGINE: TF0033102								PAGE 1 OF 1		
F I X E D D M I F C O S T ^a		FY84	FY85	FY86	FY87	FY88	FY89	FY90	FY91	AVERAGE
ENGINE OVERHAUL			34094	49212	92913	32628	92441	163368	284589	107035
ENGINE ACCESSORIES			130545	202484	273206	428532	512841	749350	814228	444455
TOTAL FIXED DMIF COST			164639	251696	366119	461160	605282	912718	1098817	551490
V A R I A B L E D M I F C O S T ^b										
ENGINE OVERHAUL										
ORG LABOR			64905	84686	202294	58709	161395	295806	629332	213875
ORG MATERIAL			68552	50877	68353	5083	88333	138209	252687	96013
ORG OTHER			126910	122206	252231	77282	223269	377138	665094	263447
CONTRACT			0	0	0	0	0	0	0	0
TOTAL ENGINE OVHL			260367	257769	522878	141074	472997	811153	1547113	573336
ENGINE ACCESSORIES										
ORG LABOR			249106	354774	609645	828808	932160	1261485	1871774	872536
ORG MATERIAL			433561	737314	1233098	1647453	1666236	1760175	1878209	1336578
ORG OTHER			217069	283790	474704	707166	874612	1157619	1411384	732335
CONTRACT			1141062	1237141	1183825	1640364	916128	1419264	1848009	1340828
TOTAL ENGINE ACCESS			2040798	2613019	3501272	4823791	4389136	5598543	7009376	4282276
^c TOTAL ORGANIC COST			1160103	1633647	2840325	3324501	3946005	4990432	6708480	3514785
TOTAL CONTRACT COST ^d			1141062	1237141	1183825	1640364	916128	1419264	1848009	1340828
TOTAL VARIABLE DMIF COST ^e			2301165	2870788	4024150	4964865	4862133	6409696	8556489	4855612
C O N D E M N A T I O N C O S T ^f										
ENGINE ACCESSORIES			6215372	4840573	6399748	5295476	6770923	8307288	9920052	6821347
O R G A N I C L A B O R H O U R S ^g										
DIRECT CIVILIAN LABOR			17016	23542	41151	48814	61097	83019	118336	56139
OTHER DIRECT CIV LABOR			0	0	0	0	0	0	0	0
DIRECT MILITARY LABOR			20	308	219	121	109	26	6037	977
OTHER DIRECT MIL LABOR			0	0	2070	0	0	0	1098	453
^h -----										
ENGINE FLYING HOURS			197192	206256	230656	235224	236424	245228	298116	235585
NUMBER INSTALLED ENGINES ⁱ			500	592	596	636	636	688	744	627
^j COMPOSITE DMIF \$/ENG FHR			12	14	17	21	21	26	29	21
^k DMIF ENG OVHL \$/ENG FHR			1	1	2	1	2	3	5	2
^l DMIF ENG ACCESS \$/ENG FHR			10	13	15	21	19	23	24	18
CONDEMNATION \$/ENG FHR ^m			32	23	28	23	29	34	33	29
ⁿ										
^o										
REFERENCE THE REPORT FOREWORD OF THIS PRODUCT FOR IDENTITY OF SPECIFIC ENGINES AND WBS CATAGORIES INCLUDED IN THIS RUN. COST TYPES: INCLUDE CLASS IV INCLUDE CLASS V (INCLUDE ICS)(INCLUDE CLS) INCLUDE BASELINE INCLUDE OFF-EQUIP INCLUDE ON-EQUIP										

d. Total Contract Cost. Total contract cost is the sum of variable contract costs for engine overhaul and engine accessories.

e. Total Variable DMIF Cost. Total variable depot repair cost is the sum of total variable organic cost and total variable contract cost.

f. Condemnation Cost. Condemnation costs for engine accessories.

g. Organic Labor Man-hours. Only organic labor hours are shown. Contract labor hours are never reported and cannot be displayed.

- Direct Civilian Labor. Direct civilian labor hours are the sum of the direct civilian labor hours for both engine overhaul and engine accessories.
- Other Direct Civilian Labor. Other direct civilian labor hours are the sum of other direct civilian labor hours for both engine overhaul and engine accessories.
- Direct Military Labor. Direct military labor hours are the sum of direct military labor hours for both engine overhaul and engine accessories.
- Other Direct Military Labor. Other direct military labor hours are calculated as the sum of other direct military labor hours for both engine overhaul and engine accessories.

h. Engine Flying Hours. The total engine actual flying hours for each fiscal year are displayed.

i. Number Installed Engines. Number of installed engines for each fiscal year.

j. Composite DMIF \$/ENG FHR. Composite DMIF cost per engine flying hour (or cost per engine if the engine is on a missile) is displayed for each fiscal year.

k. DMIF ENG OVHL \$/ENG FHR. The DMIF engine overhaul cost per engine flying hour (or cost per engine if the engine is used on a missile engine) is displayed for each fiscal year.

l. DMIF ENG ACCESS \$/ENG FHR. The DMIF engine accessories cost per engine flying hour (or cost per engine if the engine is used on a missile) is displayed for each fiscal year.

m. CONDEMNATION \$/ENG FHR. The condemnation cost per engine flying hour (or cost per engine if the engine is used on a missile) is displayed for each fiscal year.

n. AFMC-funded CLS and ICS Costs (optional). The AFMC-funded CLS and AFMC-funded ICS depot level and ICS base level costs are displayed for the engine for each fiscal year. This report print line is generated only if CLS or base/depot ICS costs are incurred for the engine in one or more of the reported fiscal years.

o. Report Footnote Lines. The footnote lines provide information to the user to identify the report cost content. The footnote lines are displayed at the end of each individual engine report. The "COST TYPES" line of the report footnote identifies if Class IV modification installation costs, Class V modification installation costs, ICS costs, CLS costs, baseline costs, off-equipment costs, or on-equipment repair costs are specifically included or excluded on the report. If a particular cost in the fiscal years type "included" is enclosed by parentheses, the engine did not incur that particular cost type in any fiscal year reported; if the cost type "included" is not enclosed by parentheses, the engine did incur that particular cost type in one or more of the fiscal years reported, and that cost is included in the report.

3.8.29. Engine Cost Summary Report in Constant-Year Dollars Part A: TMS (Individual) Summary (PCN: Q-H036C-S80-IR-8IR). *Depot Maintenance Weapon System Cost Data, RCS: SAF-ACC(A&AR)8202, Schedule 8: FYxx Engine Cost Summary, FYxx Costs in FYzz Dollars.* The intent of this report is to provide a detailed summary of depot repair and condemnation costs for a whole engine TMS for one fiscal year. Costs are summarized and displayed by work breakdown structures of Engine Overhaul and Engine Accessories. This product's Report Foreword identifies the specific engines included in the interrogation and shows the type costs that are specifically included or excluded in the report. Reference Chapter 4 for a complete description of all computations.

3.8.30. Engine Cost Summary Report in Constant-Year Dollars Part B: TMS (Grouped) Summary (PCN: Q-H036C-S81-IR-8IR). *Depot Maintenance Weapon System Cost Data, RCS: SAF-ACC(A&AR)8202, Schedule 8: FYxx Engine Cost Summary, FYxx Costs in FYzz Dollars.* This report is the same as Q-H036C-S80-IR-8IR, except that the costs are summarized (over the TMSs included in the report) to the complete engine series rather than for an individual engine. For example, a report for J0079017 engines may include costs for the J0079017A, J0079017C, J0079017E, J0079017F, and J0079017G engines.

3.8.31. Engine Cost Summary Report in Constant-Year Dollars Part C: TMS (Family) Summary (PCN: Q-H036C-S82-IR-8IR). *Depot Maintenance Weapon System Cost Data, RCS: SAF-ACC(A&AR)8202, Schedule 8: FYxx Engine Cost Summary, FYxx Costs in FYzz Dollars.* This report is the same as Q-H036C-S80-IR-8IR, except that the

costs are summarized (over the TMSs included in the report) to an entire engine family rather than for an individual engine. For example, a report for the T0056 engine family may include costs for all T0056007, all T0056009, and all T0056015 engines.

3.8.32. Engine Cost Summary Report in Then-Year Dollars Part A: TMS (Individual) Summary (PCN: Q-H036C-S70-IR-8IR). *Depot Maintenance Weapon System Cost Data, RCS: SAF-ACC(A&AR)8202, Schedule 7: FYxx Engine Cost Summary, FYxx Costs In FYxx Dollars.* This report is the same as Q-H036C-S80-IR-8IR, except that all costs are displayed in then-year dollars.

3.8.33. Engine Cost Summary Report in Then-Year Dollars Part B: TMS (Grouped) Summary (PCN: Q-H036C-S71-IR-8IR). *Depot Maintenance Weapon System Cost Data, RCS: SAF-ACC(A&AR)8202, Schedule 7: FYxx Engine Cost Summary, FYxx Costs In FYxx Dollars.* This report is the same as Q-H036C-S80-IR-8IR, except that the costs are displayed in then-year dollars, and the costs are summarized (over the TMSs included in the report) to the complete engine series rather than for an individual engine.

3.8.34. Engine Cost Summary Report in Then-Year Dollars Part C: TMS (Family) Summary (PCN: Q-H036C-S72-IR-8IR). *Depot Maintenance Weapon System Cost Data, RCS: SAF-ACC(A&AR)8202, Schedule 7: FYxx Engine Cost Summary, FYxx Costs In FYxx Dollars.* This report is the same as Q-H036C-S80-IR-8IR, except that the costs are displayed in then-year dollars, and the costs are summarized (over the TMSs included in the report) to an entire engine family rather than for an individual engine.

3.8.35. Engine Cost Summary Download Report. *Download Engine Cost Summary Report.* This file is generated to satisfy Summary Database interrogations for engine cost, giving the user the option of receiving the Q-H036C-S80-IR-8IR series (i.e., S80, S81, S82) or Q-H036C-S70-IR-8IR series report cost data on electronic media (floppy disk or CD-ROM) rather than on paper. All data from a single interrogation will be contained in one file, i.e., multiple TMSs, a range of years, and an entire report series may be in a single file. Available formats include ASCII, spreadsheet, or database file. Record descriptions are provided to the user when this file is requested.

a. Engine Cost Elements. Engine overhaul and engine accessories depot repair and condemnation costs. These costs are itemized and displayed by the following cost elements:

- 1) Direct civilian labor cost.
- 2) Other direct civilian labor cost. Depot field team labor costs.
- 3) Direct military labor cost.
- 4) Other direct military labor cost. Depot field team labor costs.
- 5) Direct material cost.
- 6) Unfunded direct material cost-investment. This includes material issued for replacement of missing recoverable items on an assembly. (NOTE: Unfunded costs are not an expense to the Depot Maintenance Industrial Fund [DMIF]).
- 7) Unfunded direct material cost-exchange.
- 8) Unfunded direct material cost-modification kit.
- 9) Unfunded direct material cost-expense. This includes material issued without charge to the DMIF from the AF Stock Fund and material furnished by the customer.
- 10) Other direct cost.
- 11) Unfunded other direct cost.
- 12) Operations overhead cost.
- 13) Unfunded operations overhead cost.
- 14) General and administrative (G&A) overhead costs. This represents the fixed depot overhead cost.
- 15) Unfunded general and administrative overhead costs.
- 16) Maintenance support costs.
- 17) Unfunded Maintenance and support costs.
- 18) Total organic costs. This is the sum of cost elements 1 through 5, 10, 12, 14, and 16 above.
- 19) Depot contract and interservice costs.
- 20) Government furnished material-investment.
- 21) Government furnished material-exchange.
- 22) Government furnished material-modification kit.
- 23) Government furnished material-expense.
- 24) Government furnished services.
- 25) Unfunded government furnished services.
- 26) Total contract costs. Sum of cost elements 19, 23 and 24 above.
- 27) Total maintenance costs. Sum of elements 18 and 26 above.
- 28) Total condemnation costs.
- 29) Organic direct civilian labor hours.
- 30) Organic other direct civilian labor hours. This represents depot field team labor hours.
- 31) Organic direct military labor hours.
- 32) Organic other direct military labor hours. This represents depot field team labor hours.

Figure 3.30. Engine Cost Summary Report in Constant-Year Dollars
Part A: TMS (Individual) Summary

FMP	RCS:SAF-FMC(A&AR)8202	DEPOT MAINTENANCE ENGINE COST DATA	Q-H036C-S80-IR-8IR	REPORT PAGE	1						
TMS ENGINE:	TF0033102	SCHEDULE 58: FY91 ENGINE COST SUMMARY	3511902 (12/17/99)	PAGE	1						
ENG FHRS:	298116	FY91 COSTS IN FY91 DOLLARS									
===== ENGINE COST DATA =====			===== ENGINE MDS-APPLICATION DATA =====								
^a COST ELEMENT	ENGINE OVERHAUL	ENGINE ACCESSORIES	^b ENGINE	^c ENG TYPE	^d MDS	^e QTY ENG ON MDS	^f INSTALLED ENGINES ON MDS	^g % INSTALLED ENGINES ON MDS	^h ENGINE FHRS ON MDS	ⁱ % ENGINE FHRS ON MDS	
DIRECT CIV LABOR COST	488,330	1,871,774	TF0033102	TMS	C135E	4	12	1.6	2844	1.0	
OT DIR CIV LABOR COST	0	0				4	16	2.2	4056	1.4	
DIRECT MIL LABOR COST	119,600	0				4	12	1.6	4720	1.6	
OT DIR MIL LABOR COST	21,402	0				4	8	1.1	6204	2.1	
DIRECT MATERIAL COST	252,687	1,878,209				4	4	0.5	1376	0.5	
UF DIR MATL INV COST	0	52,786				4	16	2.2	6248	2.1	
UF DIR MATL EXC COST	2,376,657	1,458,620				4	4	0.5	1068	0.4	
UF DIR MATL MOD KIT	0	0				4	16	2.2	5220	1.8	
UF DIR MATL EXP COST	0	0				4	652	87.6	264476	88.7	
OTHER DIRECT COST	41,363	0				4	4	0.5	1904	0.6	
UF OTHER DIRECT COST	0	0									
OPER OVERHEAD COST	623,731	1,411,384									
UF OPER OVERHEAD COST	92,330	261,492									
GEN & ADMIN COST	284,589	814,228				TF0033102	TOTALS	744	100.0	298116	100.0
UF GEN & ADMIN COST	109,748	321,405									
MAINT SUPPORT COST	0	0									
UF MAINT & SUPPORT COST	0	0									
** TOTAL ORGANIC COST	1,831,702	5,975,595									
CONTRACT/INTERSERVICE	0	1,723,343									
GFM - INVESTMENT	0	0									
GFM - EXCHANGE	0	0									
GFM - MOD KITS	0	0									
GFM - EXPENSE	0	73,818									
GOVT. FURNISHED SERVICES	0	50,848									
UF GOVT. FURN. SERVICES	0	0									
** TOTAL CONTRACT COST	0	1,848,009									
**** TOTAL MAINT. COST	1,831,702	7,823,604									
-. CONDEMNATION COST	0	9,920,052									
DIRECT CIV LABOR HOURS	24,196	94,140									
OT DIR CIV LABOR HRS	0	0									
DIR MIL LABOR HOURS	6,037	0									
OT DIR MIL LABOR HRS	1,098	0									
***** ENGINE COST FACTORS *****											
* ⁱ TF0033102 FIXED DMIF COST	\$1,098,817	COMPOSITE DMIF \$/ENG FHR	\$29	ⁱ CONDEMNATION COST	\$9,920,052	*				*	
* VARIABLE DMIF COST	\$8,556,489	DMIF ENGINE OH \$/ENG FHR	\$5	^m CONDEMN \$/ENG FHR	\$33	*				*	
* ^k NUMBER OF INSTALLED ENGINES	744	DMIF COMPONENT \$/ENG FHR	\$24			*				*	
* ^l ENGINE FLYING HOURS	298,116					*				*	

ⁱⁱ											
^o											
REFERENCE THE REPORT FOREWORD OF THIS PRODUCT FOR IDENTITY OF SPECIFIC ENGINES AND WBS CATAGORIES INCLUDED IN THIS RUN.											
COST TYPES: (INCLUDE CLASS IV)(INCLUDE CLASS V)(INCLUDE ICS)(INCLUDE CLS) INCLUDE BASELINE INCLUDE OFF-EQUIP INCLUDE ON-EQUIP											

b. Engine. Identifies the individual engine included in this cost summary report.

c. Eng Type. "TMS" (for engine) or "APU" (auxiliary power unit).

d. MDS. Identifies the aircraft or missile MDS(s) that had this specific engine installed in the fiscal year.

e. Qty Eng on MDS. Number of engines per aircraft or missile.

f. Installed Engines on MDS. Summed number of installed engines on the MDS inventory in the fiscal year.

g. % Installed Engines on MDS. Percentage of the total installed engine inventory used on the aircraft or missile MDS in the fiscal year.

h. Engine FHRS on MDS. Number of engine flying hours on the aircraft MDS in the fiscal year. If the engine is installed on a missile, this value is zero.

i. % Eng FHRS on MDS. Percentage of the total engine flying hours attributable to the aircraft MDS in this fiscal year. If the engine is installed on a missile, this value is zero.

j. Fixed, Variable, and Condemnation Total Costs. The fiscal year total fixed depot overhead cost, total variable depot repair costs, and total condemnation costs for the engine are displayed.

k. Number of Installed Engines. Total number of installed engines in the fiscal year.

l. Engine Flying Hours. Total actual flying hours of the engine in the fiscal year.

m. Cost Factors. For an engine installed on an aircraft, the depot maintenance "cost per engine flying hour" factors and the condemnation "cost per engine flying hour" factor are displayed. The depot maintenance cost factors displayed are the "composite cost per engine flying hour" factor, the "on-equipment overhaul cost per engine flying hour" factor, and the "component cost per engine flying hour" factor. (Note that the "composite" cost factor is the sum of the "on-equipment overhaul" factor and the "component" cost factor). For an engine installed on a missile, the depot maintenance "cost per engine" factor and the condemnation "cost per engine" factor are displayed.

n. AFMC-funded CLS and ICS costs (optional). The AFMC-funded CLS costs, and the AFMC-funded ICS Depot and Base level costs for the fiscal year are displayed for information purposes only. These CLS and ICS information lines are displayed only if the engine incurred CLS or ICS costs in the fiscal year. The CLS and ICS costs are not included in the total cost line and the cost factors.

o. Report Footnote Lines. Footnote lines are displayed at the end of each individual engine report to identify the report cost content. The "COST TYPES" line of the report footnote identifies if Class IV modification installation costs, Class V modification installation costs, ICS costs, CLS costs, baseline costs, off-equipment costs, or on-equipment repair costs are specifically included or excluded on the report. If a particular cost "included" is enclosed by parentheses, this means the engine did not incur that particular cost type in the fiscal year reported; if the cost type "included" is not enclosed by parentheses, this means the engine did incur that particular cost type in the fiscal year reported, and that cost is included in the report.

3.8.36. Summary Database Extract Tape. *Summary Database Interrogation Extract.* The intent of this product is to provide the user a CD-ROM, floppy disk, or computer tape which contains data records extracted from the WSCRS Summary Database (with the data elements shown in the table below). The extract file contains information for the specific weapon system data requested by the user. If multiple fiscal year information is requested, all the information will be contained on one extract file. Record descriptions are provided to the user when this file is requested.

3.8.36.1. Summary Database (SDB) Segment 1 MDS

Extract Formats. Summary Database Segment 1 contains records by aircraft or missile MDS. Weapon system extracts may contain several different record types, depending on the specific costs requested and how the costs are to be grouped in the summary. The following record types and their corresponding data elements are available:

Table 3.5. SDB Program Data Record Extract Data Elements

No.	Data Element Name	Source
1	Fiscal Year	H036C
2	Standard MDS	D200
3	Record ID	H036C
4	Standard MDS Inventory Months	D200
5	Standard MDS Flying Hours	D200
6	Fleet Inventory Months	D200
7	Fleet Flying Hours	D200
8	MDS Popular Name	D200
9	TAI	D200
10	PAA	D200
11	PAI	D200
12	BAA	D200
13	BAI	D200
14	RR	D200
15	PA Flying Hours	D200
16	SDB Creation Date (mmddyy)	D200
17	DDB Creation Date (mmddyy)	D200

Table 3.6. SDB WBS Cost Summary Record and WUC Cost Summary Record Extract Data Elements

No.	Data Element Name	Source
1	Fiscal Year	H036C
2	Standard MDS	D200
3	Record ID	H036C
4	Direct Civilian Labor Cost	H036A
5	Direct Civilian Labor Hours	H036A
6	Other Direct Civilian Labor Cost	H036A
7	Other Direct Civilian Labor Hours	H036A
8	Direct Military Labor Cost	H036A
9	Direct Military Labor Hours	H036A
10	Other Direct Military Labor Cost	H036A
11	Other Direct Military Labor Hours	H036A
12	Funded Direct Material Cost	H036A
13	Unfunded Direct Material Cost-Investment	H036A

Table 3.6. (Continued) SDB WBS Cost Summary Record and WUC Cost Summary Record Extract Data Elements

No.	Data Element Name	Source
14	Unfunded Direct Material Cost-Exchange	H036A
15	Unfunded Direct Material Cost-Mod Kits	H036A
16	Unfunded Direct Material Cost-Expense	H036A
17	Funded Other Direct Cost	H036A
18	Unfunded Other Direct Cost	H036A
19	Funded Operations Overhead Cost	H036A
20	Unfunded Operations Overhead Cost	H036A
21	Funded General & Administrative Cost	H036A
22	Unfunded General & Administrative Cost	H036A
23	Contractor/Interservice Cost	H036A
24	Government Furnished Material (GFM)-Investment	H036A
25	GFM-Exchange	H036A
26	GFM-Mod Kits	H036A
27	GFM-Expense	H036A
28	Funded Government Furnished Services (GFS)	H036A
29	Unfunded GFS	H036A
30	Funded Organic Maintenance Support Cost	H036A
31	Unfunded Organic Maintenance Support Cost	H036A
32	Condemnation Cost	D041

Table 3.7. SDB On-Equipment Overhaul Cost Summary Record Extract Data Elements

No.	Data Element Name	Source
1	Fiscal Year	H036C
2	Standard MDS	D200
3	Record ID	H036C
4	Direct Civilian Labor Cost	H036A
5	Direct Civilian Labor Hours	H036A
6	Other Direct Civilian Labor Cost	H036A
7	Other Direct Civilian Labor Hours	H036A
8	Direct Military Labor Cost	H036A
9	Direct Military Labor Hours	H036A
10	Other Direct Military Labor Cost	H036A
11	Other Direct Military Labor Hours	H036A
12	Funded Direct Material Cost	H036A
13	Unfunded Direct Material Cost-Investment	H036A
14	Unfunded Direct Material Cost-Exchange	H036A
15	Unfunded Direct Material Cost-Mod Kits	H036A
16	Unfunded Direct Material Cost-Expense	H036A
17	Funded Other Direct Cost	H036A
18	Unfunded Other Direct Cost	H036A
19	Funded Operations Overhead Cost	H036A
20	Unfunded Operations Overhead Cost	H036A
21	Funded General & Administrative Cost	H036A
22	Unfunded General & Administrative Cost	H036A
23	Contractor/Interservice Cost	H036A
24	Government Furnished Material (GFM)-Investment	H036A
25	GFM-Exchange	H036A
26	GFM-Mod Kits	H036A
27	GFM-Expense	H036A
28	Funded Government Furnished Services (GFS)	H036A
29	Unfunded GFS	H036A
30	Funded Organic Maintenance Support Cost	H036A
31	Unfunded Organic Maintenance Support Cost	H036A
32	MDS/TMS Overhauled	H036A

3.8.36.2. SDB Segment 2 TMS Extract Format. The engine cost summary extract file format is shown below.

Table 3.8. Engine Cost Summary Extract Data Elements

No.	Data Element Name	Source
1	Fiscal Year	H036C
3	Record ID	H036C
3	Next Higher Application (NHA) TMS	D200
4	Application TMS	D200
5	Direct Civilian Labor Cost	H036A
6	Direct Civilian Labor Hours	H036A
7	Other Direct Civilian Labor Cost	H036A
8	Other Direct Civilian Labor Hours	H036A
9	Direct Military Labor Cost	H036A
10	Direct Military Labor Hours	H036A
11	Other Direct Military Labor Cost	H036A
12	Other Direct Military Labor Hours	H036A
13	Funded Direct Material Cost	H036A
14	Unfunded Direct Material Cost-Investment	H036A
15	Unfunded Direct Material Cost-Exchange	H036A
16	Unfunded Direct Material Cost-Mod Kits	H036A
17	Unfunded Direct Material Cost-Expense	H036A
18	Funded Other Direct Cost	H036A
19	Unfunded Other Direct Cost	H036A
20	Funded Operations Overhead Cost	H036A
21	Unfunded Operations Overhead Cost	H036A
22	Funded General & Administrative Cost	H036A
23	Unfunded General & Administrative Cost	H036A

Table 3.8. Engine Cost Summary Extract Data Elements

No.	Data Element Name	Source
24	Contractor/Interservice Cost	H036A
25	Government Furnished Material (GFM)-Investment	H036A
26	GFM-Exchange	H036A
27	GFM-Mod Kits	H036A
28	GFM-Expense	H036A
29	Funded Government Furnished Services (GFS)	H036A
30	Unfunded GFS	H036A
31	Funded Organic Maintenance Support Cost	H036A
32	Unfunded Organic Maintenance Support Cost	H036A
33	Condemnation Cost	D041

3.8.37. Depot Maintenance Cost Factors Data. *Depot Maintenance Cost Factors (DMCF) Data and Exchangeables Repair Cost (EXCH) Data.* These files are generated for SAF/FMC to partially satisfy RCS: SAF-FMC(A&AR)8202 requirements, from data contained in the WSCRS Summary Database Segment 1.

- a. The DMCF file contains cost factors data in constant-year or then-year dollars for all weapon systems over a specified range of fiscal years (FY93 and prior) from Summary Database Segment 1. All cost information is reported by individual standard MDS by individual fiscal year.
- b. The EXCH file contains cost data in constant-year or

Section E--Weapon System Program Database Reports

3.9. Weapon System Program Database Reports. The following paragraphs illustrate the layout and meaning of the Weapon System Program Database report products, as they appear in the table that lists them at the beginning of this chapter.

3.9.1. Standard-Actual MDS PA Data (PCN: Q-H036C-A51-PA-8PA). This report displays the aircraft and missile standard-to-actual MDS relationships, the historic programmed flying hours and inventories, and the historic actual flying hours and inventory by fiscal year. This report displays the contents of the complete Standard-Actual MDS PA Data file. Two copies of the report are produced. One copy is in fiscal year, standard MDS, actual MDS sequence (as shown in the figure on opposite page); the second copy is in standard MDS, fiscal year, actual MDS sequence.

Figure 3.31. Standard-Actual MDS PA Data

HQ AFMC/FMP		12/04/98		WEAPON SYSTEM COST RETRIEVAL SYSTEM										Q-H036C-A51-PA-8PA				PAGE 16	
STANDARD-ACTUAL MDS PA DATA FOR FISCAL YEARS FY75-FY97														3381517					
STD	MDS	ACT	MDS	FY	TAI	PAA	PAI	BAA	BAI	RR	FLY	HRS	WSCR INV	WSCR FLY	HRS	COMMENTS			
				91	0	0	0	0	0	0	0	0	0	0	0	SOURCE: VOL I, PA 93-1 TAPE, 1 MAY 91			
				91	0	0	0	0	0	0	0	0	0	0	0	SOURCE: VOL III, FY92-93 PB, 12 APR 91			
				91	0	0	0	0	0	0	0	0	0	0	0	SRC:TAMP(9/30/91):TMP(DRAFT UPDATE 3/92)			
A007D				91	282	256	256	25	25	1	65895	278	58794	STD		A007D TOTAL			
A007D	A007D			91	279	253	253	25	25	1	65235	278	58794						
A007D	YA007D			91	3	3	3	0	0	0	660	278	58794						
A007K				91	26	26	26	1	0	0	6636	26	6205	STD		A007K TOTAL			
A007K	A007K			91	26	26	26	1	0	0	6636	26	6205						
A007K	YA007K			91	0	0	0	0	0	0	0	26	6205						
A010A				91	561	480	480	47	47	34	185446	560	191457	STD		A010A TOTAL			
A010A	A010A			91	561	480	480	47	47	34	185446	560	191457						
A010A	YA010A			91	0	0	0	0	0	0	0	560	191457						
OA010A	OA010A			91	67	57	57	6	6	4	24189	67	22877						
NA037B	NA037B			91	3	3	3	0	0	0	780	3	468						
OA037B	OA037B			91	47	44	44	4	3	0	13396	50	11555						
B001B	B001B			91	96	92	92	11	4	0	22624	96	22919						
B052G	B052G			91	96	88	88	7	7	1	48327	128	51027						
B052H	B052H			91	95	85	85	9	9	1	31791	95	31898						
FB111A	FB111A			91	23	23	23	0	0	0	8914	23	6151	MOD		WSCR (INV)			
C005A	C005A			91	77	69	69	7	7	1	31203	76	67656						
C005B	C005B			91	50	46	46	5	4	0	31419	50	76595						
C009A	C009A			91	20	19	19	2	1	0	27360	20	25246						
C009C	C009C			91	3	3	3	0	0	0	1740	3	1138						
KC010A	KC010A			91	59	57	57	2	2	0	48114	59	78391						
C012F	C012F			91	46	46	46	0	0	0	32247	46	28336						
C012J	C012J			91	6	6	6	0	0	0	3004	6	2660						
C018A	C018A			91	1	1	1	0	0	0	296	1	17						
C018B	C018B			91	1	1	1	0	0	0	198	1	205						
EC018B	EC018B			91	4	4	4	0	0	0	960	4	988						
C020A	C020A			91	3	3	3	0	0	0	2352	3	2673						
C020B	C020B			91	7	7	7	0	0	0	5060	7	4895						
C020C	C020C			91	3	3	3	0	0	0	1152	3	414						
C021A	C021A			91	83	84	83	0	0	0	55258	83	53551						
C022A	C022A			91	1	1	1	0	0	0	750	1	557						
C022B	C022B			91	4	4	4	0	0	0	4106	4	2727						
C023A	C023A			91	3	3	3	0	0	0	5330	4	1789						
VC025A	VC025A			91	2	2	2	0	0	0	400	2	687						
C026A	C026A			91	13	13	13	0	0	0	6000	11	5381						
C029A	C029A			91	6	6	6	0	0	0	4368	6	2212						
C130A				91	11	9	9	1	1	1	2888	11	4481	STD		C130A TOTAL			
C130A	C130A			91	10	8	8	1	1	1	2600	11	4481						
C130A	NC130A			91	1	1	1	0	0	0	288	11	4481						
C130B				91	62	61	61	6	1	0	22601	69	29350	STD		C130B TOTAL			
C130B	C130B			91	61	60	60	6	1	0	22121	69	29350						
C130B	NC130B			91	1	1	1	0	0	0	480	69	29350						
C130E	C130E			91	280	252	252	26	26	2	137682	282	141791						
C130H	C130H			91	194	183	183	18	10	1	77480	185	90392						
AC130A	AC130A			91	10	8	8	1	1	1	3396	10	3207						
AC130H	AC130H			91	10	9	9	1	1	0	5292	9	2371						
AC130U	AC130U			91	1	1	1	0	0	0	300	1	125						
EC130E	EC130E			91	15	12	12	3	3	0	7826	15	8295						

a. STD MDS. The aircraft or missile standard MDS designator. If this value is blank, no PA data is displayed; instead, the source of the PA data for the fiscal year is displayed for documentation purposes.

b. ACT MDS. The aircraft or missile actual MDS. If this value is blank, the data displayed is for the "total" standard MDS. In this case, the standard MDS had two or more actual MDSs in the fiscal year. The "total" standard MDS data contains the inventories and flying hours data summed over all its actual MDSs.

c. FY. The fiscal year of the data displayed.

d. TAI. The programmed Total Aerospace Vehicles Inventory (sum of PAI, BAI, and RR) for the actual MDS in the fiscal year.

e. PAA. The programmed Primary Aerospace Vehicles Authorization for the actual MDS in the fiscal year.

f. PAI. The programmed Primary Aerospace Vehicles Inventory for the actual MDS in the fiscal year.

g. BAA. The programmed Backup Aerospace Vehicles Authorization for the actual MDS in the fiscal year.

h. BAI. The programmed Backup Aerospace Vehicles Inventory for the actual MDS in the fiscal year.

i. RR. The programmed Reconstitution Reserve for the actual MDS in the fiscal year.

j. PA FLY HRS. The programmed authorized flying hours for the actual MDS in the fiscal year.

k. WSCR INV. The average actual operating active inventory for the standard MDS in the fiscal year.

l. WSCR FLY HRS. The actual flying hours for the standard MDS in the fiscal year.

m. COMMENTS. This field may contain any WSCR OPR supplied notes or comments to help document or explain the contents of the displayed data.

3.9.2. Weapon System Program Data Report (PCN: Q-H036C-A91-PA-8PA). The purpose of the Weapon System Program Data (WSPD) Report is to provide the analyst a useful tool in explaining and analyzing year-to-year cost fluctuations within a weapon system. The WSPD Report displays the historic weapon system program data, by fiscal year, for each aircraft or missile standard MDS on the H036C (WSCRS) Databases. This results in a multiple page report per standard MDS, with each report page displaying 5 fiscal years of data. The fiscal year data is displayed in descending fiscal year sequence beginning with the latest fiscal year and ending with FY75. The report page is divided into three parts.

- a. Part I, UTILIZATION, displays programmed and actual utilization data for the aircraft or missile standard MDS by fiscal year.
- b. Part II, STANDARD-ACTUAL MDS, displays standard MDS to actual MDS relationships for each fiscal year.
- c. Part III, APPLICATIONS, displays engine application data for the aircraft or missile standard MDS for each fiscal year.

-
- a. **STD MDS/POPULAR NAME.** Standard MDS for the aircraft or missile, and the official DOD-approved popular name for the MDS.
 - b. **MDS FLY HRS.** Actual flying hours for the aircraft "STD MDS" in the fiscal year.
 - c. **MDS INVENTORY.** Average operating active inventory for the "STD MDS" in the fiscal year. (NOTE: This "MDS INVENTORY" is approximately equal to Total Aerospace Vehicles Inventory (TAI) minus the number of "STD MDS" in the depot for repair).
 - d. **FLEET FLY HRS.** Actual fleet flying hours for the aircraft fleet in the fiscal year.
 - e. **FLEET INVENTORY.** Average operating active fleet inventory for the aircraft or missile weapon system fleet in the fiscal year.
 - f. **TAI INVENTORY.** The programmed Total Aerospace Vehicles Inventory for the aircraft or missile "STD MDS" in the fiscal year.
 - g. **PAA INVENTORY.** The programmed Primary Aerospace Vehicles Authorization for the aircraft or missile "STD MDS" in the fiscal year.
 - h. **PAI INVENTORY.** The programmed Primary Aerospace Vehicles Inventory for the aircraft or missile "STD MDS" in the fiscal year.

- i. **BAA INVENTORY.** The programmed Backup Aerospace Vehicles Authorization for the aircraft or missile "STD MDS" in the fiscal year.
- j. **BAI INVENTORY.** The programmed Backup Aerospace Vehicles Inventory for the aircraft or missile "STD MDS" in the fiscal year.
- k. **RR INVENTORY.** The programmed Reconstitution Reserve for the aircraft or missile "STD MDS" in the fiscal year.
- l. **PA FLYING HRS.** The programmed authorized flying hours for the aircraft "STD MDS" in the fiscal year.

NOTE: Possible values for items (b) through (l) above are:

- Numeric flying hour value (always zero for missiles).
 - Numeric inventory value.
 - "NA" if "STD MDS" is not in the WSCRS Databases for the fiscal year.
 - "blank" if the fiscal year is prior to FY75.
- m. **PREVIOUS STD MDS.** The possible values are:
 - The "PREVIOUS STD MDS" value is the same as the "STD MDS" value. This means that the actual MDS was its own standard MDS in that fiscal year.

Figure 3.32. Weapon System Program Data Report

[illegible]

- The “PREVIOUS STD MDS” value is different from the “STD MDS” value. This means that any cost data, utilization data, or engine application data for the aircraft or missile “STD MDS” in that fiscal year was included in and reported as the “PREVIOUS STD MDS”.
- “NONE”. This means that the aircraft or missile “STD MDS” was not reported in the WSCRS Databases for that fiscal year.
- “Blank”. This means the fiscal year is prior to FY75, and is before the scope of the WSCRS Databases.

n. ACTUAL MDS. This value(s) shows which actual MDSs are included in and reported as the “STD MDS” in the fiscal year. The possible values are:

- An actual MDS.
- “NONE”. This means the actual MDS was its own “stand-alone” standard MDS in the fiscal year.
- “NA” (Not Applicable). This means the “STD MDS” is not on the WSCRS Databases for the fiscal year.
- “Blank”. This means the fiscal year is prior to FY75, and is before the scope of the WSCRS Databases.

o. Application. This column lists all engines, engine gearboxes, engine modules, and airborne auxiliary power units which are installed on the aircraft or missile “STD MDS”. Also listed is the appropriate application-type identifier. The possible application-type identifiers are:

- TMS = engine.
- BOX = engine gearbox.

- MOD = engine module.
- APU = airborne auxiliary power unit.

p. Application Usage Data. This data consists of quantity per application, percent application, application operating percent, and application operating hours or inventory months. The possible values are:

- 1) **Numeric application usage values:**
 - **Quantity Per Application.** Quantity of the application installed on the aircraft or missile “STD MDS” as of the end of the fiscal year.
 - **Percent Application.** Percentage of the aircraft or missile “STD MDS” inventory using the application as of the end of the fiscal year.
 - **Application Operating Percentage.** For an aircraft “STD MDS”, this is the percentage of time the application operated in relation to the aircraft flying hours. For a missile “STD MDS”, this value is always “100”.
 - **Application Operating Hours/Inventory Months.** For an aircraft “STD MDS”, this value is the application’s total operating hours as of the end of the fiscal year. For a missile “STD MDS”, this value is the application’s total inventory months as of the end of the fiscal year. (Note: Inventory months divided by twelve approximately equals the “MDS INVENTORY” value).
- 2) **“NA” (Not Applicable).** This means the application was not installed on the aircraft or missile “STD MDS” as of the end of the fiscal year.
- 3) **“Blank”.** This means the fiscal year is prior to FY75, and is before the scope of the WSCRS Databases.

3.9.3. Engine Program Data Report (PCN: Q-H036C-B91-PA-8PA). The purpose of the Engine Program Data (EPD) Report is to provide the analyst a useful tool in explaining and analyzing year to year cost fluctuations for an engine. The EPD Report displays historic engine program data, by fiscal year, for each engine on the WSCRS Databases. This results in a multiple page report per engine, with each report page displaying 5 fiscal years of data. The fiscal year data is displayed in descending fiscal year sequence beginning with the latest fiscal year, and ending with FY75 or the earliest fiscal year for which the engine appeared on the database. The report page is divided into three parts:

- a. Part I, UTILIZATION, displays actual utilization data for the engine by fiscal year.
- b. Part II, ENGINE-MDS DATA, displays engine installation data by standard MDS for each fiscal year.
- c. Part III, ENGINE-MOD DATA, displays engine-module and engine-gearbox configuration data for each fiscal year. Part III of the report page is optional and is printed only for a modular engine.

Figure 3.33. Engine Program Data Report

HQ AFMC/FMP		6/13/00		WEAPON SYSTEM COST RETRIEVAL SYSTEM (H036C)				Q-H036C-B91-PA-8PA				REPORT PAGE 2			
ENGINE : F0100220				ENGINE PROGRAM DATA								PAGE 2 OF 3			
ENG TYPE : TMS				FOR FISCAL YEARS FY86-FY99				1651428							
PART I UTILIZATION															
F0100220		FY94		FY93		FY92		FY91		FY90					
-----		*-----*		*-----*		*-----*		*-----*		*-----*					
ENGINE FHRS		252975		182853		196660		206180		138213					
# INSTALLED ENG		915		679		741		708		572					
PART II ENGINE - MDS DATA															
FY94		FY93		FY92		FY91		FY90							
-----		*-----*		*-----*		*-----*		*-----*		*-----*					
QTY INS ENG		QTY INS ENG		QTY INS ENG		QTY INS ENG		QTY INS ENG		QTY INS ENG					
ENG ENG FHR		ENG ENG FHR		ENG ENG FHR		ENG ENG FHR		ENG ENG FHR		ENG ENG FHR					
ON ON ON		ON ON ON		ON ON ON		ON ON ON		ON ON ON		ON ON ON					
MDS		MDS		MDS		MDS		MDS		MDS					
-----		*-----*		*-----*		*-----*		*-----*		*-----*					
F015A		NA		2 1 0		2 1 0		NA		NA					
F015B		NA		2 0 0		2 0 0		NA		NA					
F015C		2 19 19		2 21 22		2 20 20		2 25 32		2 31 36		50281			
F015D		2 2 2		2 3 2		2 2 3		2 1 1		2 2 2		2584			
F015E		2 28 33		2 34 37		2 35 37		2 40 38		2 37 31		43042			
F016A		1 5 6		1 2 1		1 2 1		NA		NA					
F016B		1 1 1		1 0 0		1 0 0		NA		NA					
F016C		1 35 30		1 33 30		1 34 33		1 28 24		1 23 24		33107			
F016D		1 10 9		1 6 5		1 6 5		1 6 5		1 7 7		9199			
PART III ENGINE - MOD DATA															
FY94		FY93		FY92		FY91		FY90							
-----		*-----*		*-----*		*-----*		*-----*		*-----*					
QTY INS MOD		QTY INS MOD		QTY INS MOD		QTY INS MOD		QTY INS MOD		QTY INS MOD					
MOD ENG FHR		MOD ENG FHR		MOD ENG FHR		MOD ENG FHR		MOD ENG FHR		MOD ENG FHR					
ON W/ ON		ON W/ ON		ON W/ ON		ON W/ ON		ON W/ ON		ON W/ ON					
ENG MOD ENG		ENG MOD ENG		ENG MOD ENG		ENG MOD ENG		ENG MOD ENG		ENG MOD ENG					
F0100025A MOD		1 100 100		1 100 100		1 100 100		1 100 100		1 100 100		138213			
F0100025B MOD		1 100 100		1 100 100		1 100 100		1 100 100		1 100 100		138213			
F0100025C MOD		1 100 100		1 100 100		1 100 100		1 100 100		1 100 100		138213			
F0100025F MOD		1 100 100		1 100 100		1 100 100		1 100 100		1 100 100		138213			
F0100025G MOD		1 100 100		1 100 100		1 100 100		1 100 100		1 100 100		138213			
F0100025H MOD		1 100 100		1 100 100		1 100 100		1 100 100		1 100 100		138213			

a. ENGINE. Engine TMS designator.

b. ENG TYPE. The possible engine-type identifiers are:

- TMS = engine.
- APU = airborne auxiliary power unit.

c. ENGINE FHRS. Total number of engine flying hours by fiscal year.

d. # INSTALLED ENG. Total number of installed engines by fiscal year.

e. MDS. Standard MDS for each aircraft or missile with this engine installed, by fiscal year.

f. QTY ENG ON MDS. Quantity of engines installed per aircraft or missile.

g. % INS ENG ON MDS. Percent of total installed engine inventory on each aircraft or missile MDS, by fiscal year.

h. % ENG FHR ON MDS. Percent of total engine flying hours attributed to each aircraft MDS, by fiscal year.

i. ENG FHR ON MDS. Number of engine flying hours attributed to each aircraft MDS, by fiscal year.

j. MODULE. Module or gearbox used on each engine, by fiscal year.

k. QTY MOD ON ENG. Number of modules or gearboxes installed per engine-module configuration, by fiscal year.

l. % INS ENG W/MOD. Percent of total installed engine inventory with this engine-module configuration, by fiscal year.

m. % MOD FHR ON ENG. Percent of the total module or gearbox flying hours attributed to this engine-module configuration, by fiscal year.

n. MOD FHR ON ENG. Total number of module or gearbox flying hours attributed to this engine-module configuration, by fiscal year.

3.10. NSN Descriptive Requirements Data Report (PCN: Q-H036C-391-PR-8PR). *FYxx NSN Descriptive Requirements Data.* The intent of this report is to provide historic, detailed, stock number logistics information for use in analyzing exchangeable item cost data. This report for FY75-FY93 data is only available as microfiche. It displays the stock number logistics information obtained from various interface files. Reference AFMCMAN 23-1 for the description of D041 data elements.

Figure 3.34. NSN Descriptive Requirements Data Report

FMP 01-10-2000		FY98 NSN DESCRIPTIVE REQUIREMENTS DATA WEAPON SYSTEM COST RETRIEVAL SYSTEM		Q-H036C-391-PR-8PR	
SUBGROUP MASTER NSN 1270 000000121 FX		ITEM NAME CONTROLPNL			
D041 ALC SITE/D043 ALC SRC OF SPLY	WR/WR	BASE PROCESSED PCT CURR 24 MOS	16%	BASE RTS (04) QTY	3
ERRC	T	OIM DEPOT DEMAND RATE CURR 24 MOS	0.0250	BASE CONDEMNATIONS(05) QTY	0
WORK UNIT CODE/SRC	74KAP/A	NHA MISTR JR REPL PCT CURR 24	1%	BASE NRTS (06) QTY	35
D041 LAST ACQUIS COST (LAC)	\$1416.00/A	NHA MISTR JR CNDMN PCT CURR 24 MOS	0%	DEPOT REP GENS(07) QTY	1
DATE LAST PROCURED/SRC	83090/E	EOH NJR REPL PCT CURR 24 MOS	0%	DEPOT COND(08) (MISTR+JR)	2
D041 FORECAST UNIT PRICE (FUP)	\$2288.25	EOH JR CNDMN PCT CURR 24 MOS	0%	MISTR REPAIR(09) QTY	26
UNIT OF ISSUE	EA	PDM NJR REPL PCT CURR 24 MOS	0%	DEPOT COND(10) (MISTR ONLY)	2
ACQUISITION METHOD CODE	3	PDM JR CNDMN PCT CURR 24 MOS	0%	BASE INITIAL ISSUE	0
ACQUISITION METHOD CODE SUFFIX	H	MISTR NJR PGM PCT CURR 24 MOS	100%	DEPOT INITIAL ISSUE	0
UNIT REPAIR MANHOURS	5.0	EOH NJR PGM PCT CURR 24 MOS	0%	WAR BASE PROCESSING PCT	16%
UNIT REPAIR COST/SRC	\$967.85/C	PDM NJR PGM PCT CURR 24 MOS	0%	WAR DEPOT OIM DMD RTE	0.0236
FORECASTED UNIT REPAIR COST	\$0.00	NJR STOCK LEVEL DAYS/SRC	14/S	WAR MISTR NJR RPLC PCT/SRC	1%/P
MANAGER DESIGNATOR	AH	JR STOCK LEVEL DAYS/SRC	14/S	WAR MISTR JR CNDMN PCT/SRC	0%/P
EQUIPMENT SPECIALIST	R7	DEPOT OH CNDMN % CURR 24 MOS/SRC	3%/C	WAR EOH NJR RPLC PCT/SRC	0%/P
DIVISION DESIGNATOR	U	BASE CNDMN PCT CURR 24 MOS/SRC	0%/C	WAR EOH JR CNDMN PCT/SRC	0%/P
BUDGET PROGRAM CODE	15	BASE NRTS PCT CURR 24 MOS/SRC	84%/C	WAR PDM NJR RPLC PCT/SRC	0%/P
BUDGET CODE	8	BASE REPAIR CYCLE DAYS/SRC	4/S	WAR PDM JR CNDMN PCT/SRC	0%/P
PROGRAM BEGIN DATE	7503	TOT OIM DMD RATE IN COMP/SRC	0.0298/C	WAR MISTR NJR PRGM PCT/SRC	100%/P
MSD STANDARD PRICE	\$1246.46	TOTAL DEPOT REPAIR CYCLE DAYS	12	WAR EOH NJR PRGM PCT/SRC	0%/P
MSD LATEST ACQUISITION COST	\$989.89	SERVICEABLE TURN IN DAYS/SRC	1/C	WAR PDM NJR PRGM PCT/SRC	0%/P
MSD LATEST REPAIR COST	\$675.75	SHOP FLOW DAYS/SRC	4/C	WAR NJR STK LVL DAYS/SRC	14/P
MSD EXCHANGE PRICE	\$894.94	SUPPLY TO MAINTENANCE DAYS/SRC	0/C	WAR JR STK LVL DAYS/SRC	14/P
MSD CARCASS COST	\$313.13	OIM BASE REPAIR RATE CURR 24 MOS	0.0048	WAR DEPOT OHVL CNDMN PCT/SRC	3%/P
MSD MARK-UP PRICE	\$351.51	BASE PROCESSING DAYS/SRC	2/S	WAR BASE CNDMN PCT/SRC	0%/P
MSD UNSERVICEABLE ASSET PRICE	\$570.70	REPARABLE INTRANSIT DAYS/SRC	5/E	WAR BASE NRTS PCT/SRC	84%/P
MSD DIRECT AT LAC	\$217.17	REP INTRANSIT DAYS T-PHSD/SRC	0/	WAR BASE REPAIR CYCLE DAYS/SRC	3/S
MSD INDIRECT/G&A AT LAC	\$39.39	BASE O&ST DAYS/SRC	09/S	WAR TOTAL OIM DMD RATE/SRC	0.0281/A
MSD DIRECT AT LRC	\$185.85	COUNT OF APPLICATIONS	0	WAR TOTAL DEPOT REP CYCLE DAYS	36
MSD INDIRECT/G&A AT LRC	\$33.33	NUMBER OF USERS	8	WAR SERVICEABLE TURN-IN-DAYS/SRC	1/P
MSD MATERIAL COST RECOVERY	\$0.00	ICS-RTW INDICATOR CODE		WAR SHOP FLOW DAYS/SRC	4/P
ASSET CUTOFF DATE	9809	TOTAL DEPOT REP CYCLE DAYS T-PHSD	0	WAR SUPPLY TO MAINT DAYS/SRC	0/P
NEW ITEM CODE		DRC EFFECTIVE DATE T-PHSD	0000	WAR BASE REPAIR RATE	0.0045
COMPUTE INDICATOR	Y	SERVICE TURN IN DAYS T-PHSD/SRC	0/	WAR BASE PROCESSING DAYS/SRC	1/S
PROGRAM SELECTION CODE	100X	SHOP FLOW DAYS T-PHSD/SRC	0/	WAR REP INTRAN DAYS (MTH 1)/SRC	30/S
AIRLIFT ITEM CODE	A	SUPPLY TO MAINT DAYS T-PHSD/SRC	0/	WAR REP INTRAN DAYS (MTH 2)/SRC	10/S
OBSOLETE CODE		BASE PROCESSING DAYS T-PHSD/SRC	0/	WAR BASE O&ST DAYS (MTH 1)/SRC	30/S
APPL DEFER DISPOSAL CODE		REPAIR LEADTIME DAYS	5	WAR BASE O&ST DAYS (MTH 2)	11
SYSTEM MANAGEMENT CODE	328Z	REPAIR LEADTIME T-PHSD	0	WAR # USR T-PHSD (MTHS 1-3)/SRC	8/P
ITEM ACTIVITY CODE/SRC	E6/E	DATE OF LAST DEMAND	9809	WAR # USR T-PHSD (MTHS 4-6)/SRC	8/P
ITEM CATEGORY		NIMSC EFFECTIVE DATE (YYDDD)	97254	WAR # USR T-PHSD (MTHS 7-9)/SRC	8/P
MATERIEL PROGRAM CODE (MPC)	1N00	PICA NIMSC CODE/ROUT ID	F/FLZ	WAR # USR T-PHSD (MTHS 10-12)/SRC	8/P
FEEMS INDICATOR		SICA (ARMY) NIMSC CODE/ROUT ID	/	WAR ADJMT FACTOR/SRC	0.00/C
DLM EXCLUSION INDICATOR		SICA (USAF) NIMSC CODE/ROUT ID	/	WAR COMP T-SPAN	06
VSL EXCLUSION INDICATOR		SICA (MARINE) NIMSC CODE/ROUT ID	/		
ITEM MIEC/SRC	3BE/C	SICA (NAVY) NIMSC CODE/ROUT ID	/		
ADMIN LEADTIME MTHS/SRC	4/S	SOR REPAIR CODE (1ST)/ %	00/ 85%		
PROD LEADTIME MTHS/SRC	11/E	SOR REPAIR CODE (2ND)/ %	0T/ 15%		
CONTINGENCY/DEFER DISP LEVL	0	SOR REPAIR CODE (3RD)/ %	/ 0%		
INSUR/NSO BUY LEVEL/SRC	0/	SOR REPAIR CODE (4TH)/ %	/ 0%		
INSUR/NSO REPAIR LEVEL/SRC	0/	SOR REPAIR CODE (5TH)/ %	/ 0%		
INSUR/NSO RETEN LEVEL/SRC	0/	SOR REPAIR CODE (6TH)/ %	/ 0%		
PRESTOCKED REQUIREMENT	5	SOR REPAIR CODE (7TH)/ %	/ 0%		
SPECIAL LEVELS (LAST QTR)	0				

Chapter 4

COST COMPUTATIONS

Section A--Detail Database Calculations

4.1. Detail Database Costs Application. The depot maintenance and condemnation costs are identified directly to weapon systems, or indirectly to weapon systems by engine, engine module, engine gearbox, auxiliary power unit, stock number, or federal supply class application. Each application stock number, federal supply class, engine, engine module, engine gearbox, or auxiliary power unit is identified to the weapon system MDSs on which it is used. An application that is used on only one aircraft MDS or one missile MDS (i.e., MDS peculiar) will have all its depot maintenance and condemnation costs charged directly to that weapon system. An application that is used on two or more weapon systems (i.e., common) will have its cost distributed to those weapon systems. Common application costs are prorated either on usage (flying hour) ratios or inventory ratios. If a common application is used on a missile (even if it is also used on an aircraft) and/or the application is a stock numbered item whose D041 requirements are computed on inventory, cost proration will be based on inventory. All other common applications will have their cost prorations based on usage.

4.2. Allocation Factors. Allocation factors are developed to prorate depot maintenance and condemnation costs to an individual MDS-Application for items common to two or more MDS-Applications. Every record on the WSCRS Detail Data Base will have an allocation factor. Costs that can be directly identified to an MDS are directly assigned to the MDS; there is no cost allocation necessary and the allocation factor is equal to 1.0. Common item costs are allocated to the applicable MDSs based on usage (operating hour) or inventory ratios. The allocation factors do not account for the peculiar effects that different weapon system missions, numbers of sorties, climate, and other environmental factors may have in driving costs.

4.2.1. Data Elements Required for Allocation Factor Computations.**4.2.1.1. Total Application Operating Hours (APPLOH).**

This is the total number of hours a weapon system MDS or propulsion system TMS was operated in the fiscal year. If the application is an aircraft MDS, the total application operating hours will equal the MDS flying hours. If the application is a TMS, the total application operating hours are the sum of the operating hours for the TMS across all its MDS applications. The Total Application Operating Hours equation is defined as:

$$\text{APPLOH} = \sum_{i=1}^n [(\text{MDSFH})(\text{QPAMDS})(\% \text{MDSAPPL})(\text{APPLOP}\%)]_i$$

= total operating hours for the MDS or TMS application

where

n = total number of MDSs using the application

MDSFH = MDS flying hours in the fiscal year

QPAMDS = quantity of the application used on the MDS

%MDSAPPL = percent of MDS inventory that uses the application

APPLOP% = percent of the time the application is operating in relation to the MDS Flying hours

4.2.1.2. Total Application Inventory Months (APPLINV).

This is the total inventory months for a weapon system MDS or a propulsion system TMS in the fiscal year. If the application is an MDS, the total application inventory months will equal the MDS inventory months. If the application is a TMS, the total application inventory months are calculated and summed over all MDSs which have the TMS for an application. The Total Application Inventory Months equation is defined as:

$$\text{APPLINV} = \sum_{i=1}^n [(\text{MDSINV})(\text{QPAMDS})(\% \text{MDSAPPL})]_i$$

= total inventory months for the MDS or TMS application

where

n = total number of MDSs using the application

MDSINV = MDS inventory months in the fiscal year

QPAMDS = quantity of the application used on the MDS

%MDSAPP = percent of MDS inventory that uses the application

4.2.1.3. Total NSN Operating Hours (NSNOH). This is the total operating hours for an NSN in the fiscal year. The NSN operating hours for each NSN-application are calculated and summed over all applications that use the stock number. The Total NSN Operating Hours equation is defined as:

$$\text{NSNOH} = \sum_{i=1}^n [(\text{APPLOH})(\text{QPANSN})(\% \text{APPLNSN})]_i$$

= total operating hours for the stock number

where

n = total number of applications using the stock number

APPLOH = total application operating hours as calculated above

QPANSN = quantity of the stock number used on the application

%APPLNSN = percent of the application inventory that uses the stock number

4.2.1.4. Total NSN Inventory Months (NSNINV). This is the total inventory months for an NSN in the fiscal year. The NSN inventory months for each NSN-application are calculated and summed over all applications that use the stock number. The Total NSN Inventory Months equation is defined as:

$$NSNINV = \sum_{i=1}^n [(APPLINV)(QPANSN)(\%APPLNSN)]_i$$

= total inventory months for the stock number

where

n = total number of applications using the stock number

APPLINV = total application inventory months as calculated above

QPANSN = quantity of the stock number used on the application

%APPLNSN = percent of the application inventory that uses the stock number

4.2.1.5. Total FSC-MDS Operating Hours (FSCOH). This data element is used to allocate depot maintenance costs that are identified only to a federal supply class. The FSC-MDS operating hours are calculated as the sum of all MDS flying hours over the MDSs that use a stock number from the federal supply class. The Total FSC-MDS Operating Hours equation is defined as:

$$FSCOH = \sum_{i=1}^n (MDSFH)_i$$

= total MDS operating hours with federal supply class application

where

n = total number of MDSs that use a stock number in the federal supply class

MDSFH = MDS flying hours in the fiscal year

4.2.1.6. Total FSC-MDS Inventory Months (FSCINV).

This data element is used to allocate depot maintenance costs that are identified only to a federal supply class. The FSC-MDS inventory months are calculated as the sum of the MDS inventory months over all MDSs that use a stock number from the federal supply class. The Total FSC-MDS Inventory Months equation is defined as:

$$FSCINV = \sum_{i=1}^n (MDSINV)_i$$

= total MDS inventory months with federal supply class application

where

n = total number of MDS that use a stock number in the federal supply class

MDSINV = MDS inventory months in the fiscal year

nation costs are attributed to the MDS. This factor appears in the "Type 1" records on the WSCRS Detail Data Base.

a. Stock Number Inventory Related Allocation Factor. If the stock number is used on a missile, or if the spares requirement for the stock number is computed based on inventory, then the stock number costs are allocated based on NSN inventory as follows:

$$NSN \text{ FACTOR}_{inv} = \frac{(MDSINV)(QPAMDS)(\%MDSAPPL)(QPANSN)(\%APPLNSN)}{NSNINV}$$

= $\frac{\text{Total inventory months for NSN on this MDS-application}}{\text{Total inventory months for NSN across all applications}}$

= NSN inventory based allocation factor

where

MDSINV = MDS inventory months in the fiscal year

QPAMDS = quantity of the application used on the MDS

%MDSAPPL = percent of MDS inventory that uses the application

QPANSN = quantity of the stock number used on the application

%APPLNSN = percent of the application inventory that uses the NSN

NSNINV = total inventory months for the NSN as calculated above

b. Stock Number Operating Hour Related Allocation Factor. For stock numbers that do not meet the above criteria, the stock number costs are allocated based on NSN operating hours as follows:

$$NSN \text{ FACTOR}_{in} = \frac{(MDSFH)(QPAMDS)(\%MDSAPPL)(APPLOP\%)(QPANSN)(\%APPLNSN)}{NSNOH}$$

= $\frac{\text{Total operating hours for NSN on this MDS-application}}{\text{Total operating hours for NSN across all applications}}$

= NSN flying hour-based allocation factor

where

MDSFH = MDS flying hours in the fiscal year

QPAMDS = quantity of the application used on the MDS

%MDSAPPL = percent of MDS inventory that uses the application

APPLOP% = percent of the time the application is operating in relation to the MDS Flying hours

QPANSN = quantity of the stock number used on the application

%APPLNSN = percent of the application inventory that uses the NSN

NSNOH = total operating hours for the NSN as calculated above

4.2.2. Allocation Factor Computation for Costs Identified to Stock Numbers. This factor determines what portion of the stock number's *off-equipment* depot maintenance and condem-

4.2.3. Allocation Factor Computation for Costs Identified to Federal Supply Class. This factor is used to allocate *off-equipment* depot maintenance costs that cannot be identified to a specific stock number but can be identified as weapon system FSC costs. The factor provides a gross allocation technique to determine what portion of the costs are attributed to each MDS. This factor appears in the “Type 2” records on the WSCRS Detail Data Base and is calculated as follows:

$$\text{FSC FACTOR} = \frac{(\text{MDSINV} + \text{MDSFH})}{(\text{FSCINV} + \text{FSCOH})}$$

= FSC cost allocation factor

where

MDSINV = MDS inventory months in the fiscal year
MDSFH = MDS flying hours in the fiscal year
FSCINV = total MDS inventory months with federal supply class application as calculated above
FSCOH = total MDS operating hours with federal supply class application as calculated above

4.2.4. Allocation Factor Computation for Costs Identified to On-Equipment Overhaul. This factor determines what portion of the application *on-equipment* depot maintenance overhaul costs are attributed to each MDS-application. This factor appears in the “Type 3” records on the WSCRS Detail Data Base.

a. **Overhaul Inventory Related Allocation Factor.** If the depot maintenance costs are identified as missile related, the allocation factor is based on inventory as follows:

$$\text{OVHL FACTOR}_{\text{inv}} = \frac{(\text{MDSINV})(\text{QPAMDS})(\%\text{MDSAPPL})}{\text{APPLINV}}$$

= overhaul inventory based allocation factor

where

MDSINV = MDS inventory months in the fiscal year
QPAMDS = quantity of the application used on the MDS
%MDSAPPL = percent of MDS inventory that uses the application
APPLINV = total application inventory months for the MDS or TMS application as calculated above

b. **Overhaul Operating Hour Related Allocation Factor.** If the depot maintenance costs are identified as aircraft related, the allocation factor is based on operating hours as follows:

$$\text{OVHL FACTOR}_{\text{th}} = \frac{(\text{MDSFH})(\text{QPAMDS})(\%\text{MDSAPPL})(\text{APPLOH}\%) }{\text{APPLOH}}$$

= overhaul flying hour based allocation factor

where

MDSFH = MDS flying hours in the fiscal year
QPAMDS = quantity of the application used on the MDS
%MDSAPPL = percent of MDS inventory that uses the application
APPLOH% = percent of the time the application is operating in relation to the MDS flying hours
APPLOH = total operating hours for the MDS or TMS application as calculated above

4.3. Stock Number Condemnation Rates. The condemnation rate includes the stock number's base level condemnations and depot level condemnations and represents the rate of condemning the item on the MDS-application for the fiscal year.

a. **Stock Number Condemnation Rate for Aircraft.** If the stock number is used on an aircraft, a stock number condemnation rate per 1,000 aircraft flying hours is calculated:

$$\text{Condemnation Rate} / 1000 \text{ MDSFH} = \frac{(\text{Base Cond} + \text{Depot Cond})(\text{NSN Factor}_{\text{th}})}{\text{MDSFH}} \times 1000$$

= quantity condemned per 1000 aircraft flying hours

where

Base Cond = quantity of the stock number condemned at base level
Depot Cond = quantity of the stock number condemned at depot level
 $\text{NSN Factor}_{\text{th}} = \frac{\text{Total operating hours for NSN on this MDS-application}}{\text{Total operating hours for NSN across all applications}}$
MDSFH = MDS flying hours in the fiscal year

b. **Stock Number Condemnation Rate for Missiles.** If the stock number is used on a missile, a stock number condemnation rate per missile is calculated:

$$\text{Condemnation Rate} / \text{Missile} = \frac{(\text{Base Cond} + \text{Depot Cond})(\text{NSN Factor}_{\text{inv}})}{\frac{\text{MDSINV}}{12}}$$

= quantity condemned per missile

where

Base Cond = quantity of the stock number condemned at base level
Depot Cond = quantity of the stock number condemned at depot level
 $\text{NSN Factor}_{\text{inv}} = \frac{\text{Total inventory months for NSN on this MDS-application}}{\text{Total inventory months for NSN across all applications}}$
MDSINV = MDS inventory months in the fiscal year

4.4. Stock Number Condemnation Cost Rates. The condemnation cost rate includes the stock number base level condemnations and depot level condemnations and represents the cost rate for the item on the MDS-application in the fiscal year. The NSN unit price is the last buy price of the item expressed in then-year dollars. (WSCRS cannot escalate the NSN price to the current-year dollars because the fiscal year of the last buy is not available.)

a. **Stock Number Condemnation Cost Rate for Aircraft.** If the stock number is used on an aircraft, a stock number condemnation cost per aircraft flying hour is calculated:

$$\text{\$ Condemnation} / \text{MDSFH} = \frac{(\text{Condemnation Rate} / 1000 \text{ MDSFH})(\text{NSN Unit Price})}{1000}$$

= condemnation cost per aircraft flying hour

b. **Stock Number Condemnation Cost Rate for Missiles.** If the stock number is used on a missile, a stock number condemnation cost per missile is calculated:

$$\text{\$ Condemnation} / \text{Missile} = (\text{Condemnation Rate} / \text{Missile})(\text{NSN Unit Price})$$

= condemnation cost per missile

4.5. Depot Maintenance Repair Rates. The depot maintenance repair rate gives the application (NSN, FSC, MDS, TMS) depot repair rate on the MDS in the fiscal year *by work performance category*. Computation descriptions follow the assumptions and constraints listed below.

a. Depot maintenance repair is reported only for work completed in the fiscal year. Repairable items sent to the depot may be batched until quantities are sufficient to be economical to repair. Thus items sent to the depot in one fiscal year may not be repaired until the next fiscal year. This may cause the repair rate and cost rate to be very low in one fiscal year and quite high in the following fiscal year.

b. H036A cost records with position 1 of the weapon system code not equal to 1, 2, 3, 4, 5, 6, 7, 8, 9, K, or F are excluded. These records do not contain aircraft or missile related costs.

c. H036A cost records with position 1 of the work breakdown structure code not equal to A, F, K, or L are excluded. These records do not contain aircraft or missile related costs.

d. H036A cost records with position 2 of customer code not equal to F are excluded. These records contain costs for non-USAF customers.

e. H036A cost records with position 1 of the WPC equal to P, Q, R, S, or T are excluded. These records report maintenance support costs.

f. H036A cost records that contain costs related to aircraft or missiles, but not for the aircraft and missiles processed by WSCRS, are excluded.

4.5.1. PQC/Application/WPC. The production quantity completed (PQC) field is summed in the H036A records that have equal application (i.e., NSN, FSC, MDS, or TMS) values and equal work performance category (WPC) values to give “PQC/Application/WPC”.

*Note: The “PQC” value is very often reported incorrectly through the AFMC maintenance accounting systems. We recommend that you **do not use** this value or any other values derived from the “PQC” value.*

4.5.2. Depot Maintenance Repair Rate for Aircraft. If the application (i.e., NSN, FSC, MDS, or TMS) is used on an aircraft, a depot maintenance repair rate per 1,000 aircraft flying hours is calculated:

$$\text{Repair Rate} = \frac{(\text{PQC/Application/WPC})(\text{Factor})}{\text{MDSFH}} \times 1000$$

$$= \text{quantity of the application repaired/WPC/1000 MDSFH}$$

where Factor value varies by application:

$$\text{NSN: Factor} = \text{NSN Factor}_{\text{th}}$$

$$\text{FSC: Factor} = \text{FSC FACTOR}$$

$$\text{MDS or TMS: Factor} = \text{OVHL FACTOR}_{\text{th}}$$

*Note: The “PQC” value is very often reported incorrectly through the AFMC maintenance accounting systems. We recommend that you **do not use** this value or any other values derived from the “PQC” value.*

4.5.3. Depot Maintenance Repair Rate for Missiles. If the application (i.e., NSN, FSC, MDS, or TMS) is used on a missile, a depot maintenance repair rate per missile is calculated:

$$\text{Repair Rate} = \frac{(\text{PQC/Application/WPC})(\text{Factor})}{\frac{\text{MDSINV}}{12}}$$

$$= \text{quantity of applications repaired/WPC/MDS}$$

where Factor value varies by application:

$$\text{NSN: Factor} = \text{NSN Factor}_{\text{inv}}$$

$$\text{FSC: Factor} = \text{FSC FACTOR}$$

$$\text{MDS or TMS: Factor} = \text{OVHL FACTOR}_{\text{inv}}$$

*Note: The “PQC” value is very often reported incorrectly through the AFMC maintenance accounting systems. We recommend that you **do not use** this value or any other values derived from the “PQC” value.*

4.6. Depot Maintenance Cost Rates. The depot maintenance cost rate gives the application (i.e., NSN, FSC, MDS, TMS) repair cost rate on the MDS in the fiscal year *by work performance category*. Data elements listed below are summed together in all H036A records that have the same application and work performance category values.

- Direct civilian labor cost
- Other direct civilian labor cost
- Direct military labor cost
- Other direct military labor cost
- Funded direct material cost
- Funded other direct cost
- Funded operations overhead cost
- Funded G&A overhead cost
- Contract and interservice cost
- Government furnished material-expense
- Funded government furnished services
- Funded organic maintenance support cost

The sum gives the “Total repair cost/Application/WPC”. The sum does not include the cost of repairing unserviceable subassemblies and components of the application that are exchanged for serviceable subassemblies and components. The repair cost for an unserviceable exchanged subassembly or component is reported to that subassembly or component, not to its next higher application. The same assumptions and constraints described in the preceding paragraph apply to the Depot Maintenance Cost Rates.

4.6.1. Depot Maintenance Cost per Aircraft Flying Hour.

If the application (i.e., NSN, FSC, MDS, or TMS) is used on an aircraft, a depot maintenance cost per aircraft flying hour is calculated:

$$\begin{aligned} \$ \text{ Repair} / \text{MDSFH} &= \frac{(\text{Total repair cost} / \text{Application} / \text{WPC})(\text{Factor})}{\text{MDSFH}} \\ &= \text{repair cost} / \text{Application} / \text{WPC} / \text{MDSFH} \end{aligned}$$

where Factor value varies by application:

$$\begin{aligned} \text{NSN: Factor} &= \text{NSN Factor}_{\text{fh}} \\ \text{FSC: Factor} &= \text{FSC FACTOR} \\ \text{MDS or TMS: Factor} &= \text{OVHL FACTOR}_{\text{fh}} \end{aligned}$$

4.6.2. Depot Maintenance Cost per Missile. If the application (i.e., NSN, FSC, MDS, or TMS) is used on a missile, a depot maintenance cost per missile is calculated:

$$\begin{aligned} \$ \text{ Repair} / \text{Missile} &= \frac{(\text{Total repair cost} / \text{Application} / \text{WPC})(\text{Factor})}{\frac{\text{MDSINV}}{12}} \\ &= \text{repair cost} / \text{Application} / \text{WPC} / \text{Missile} \end{aligned}$$

where Factor value varies by application:

$$\begin{aligned} \text{NSN: Factor} &= \text{NSN Factor}_{\text{inv}} \\ \text{FSC: Factor} &= \text{FSC FACTOR} \\ \text{MDS or TMS: Factor} &= \text{OVHL FACTOR}_{\text{inv}} \end{aligned}$$

4.7. Depot Maintenance Average Cost to Repair. The average cost to repair gives the application (i.e., NSN, FSC, MDS, TMS) average repair cost in the fiscal year *by work performance category*:

$$\text{Average Cost to Repair} = \frac{\text{Total repair cost} / \text{Application} / \text{WPC}}{\text{PQC} / \text{Application} / \text{WPC}}$$

Note: The “PQC” value is very often reported incorrectly through the AFMC maintenance accounting systems. We recommend that you **do not use** this value or any other values derived from the “PQC” value.

Section B-- Summary Database Organization

4.8. Summary Database Costs Organization. The WSCRS Summary Database (SDB) stores depot repair and condemnation costs in two database segments per fiscal year. SDB Segment 1 contains costs for aircraft and missiles. SDB Segment 2 contains costs for engines. All Summary Database costs are obtained from the WSCRS Detail Database.

4.8.1. SDB Segment 1: Aircraft and Missiles. There are 4 types of records in this segment:

4.8.1.1. Program Data Records. Program Data Records contain the MDS actual and programmed flying hours and inventories for the fiscal year. (There is only one Program Data Record per MDS per fiscal year.)

4.8.1.2. WUC Cost Summary Records. WUC Cost Summary Records contain the *off-equipment* depot maintenance and condemnation costs summarized to two-digit system level work unit code (WUC). These costs are obtained from information contained in the “Type 1” and “Type 2” records of the WSCRS Detail Data Base. Within each two-digit WUC summary, costs are separately identified as Class IV Modification Installation costs, Class V Modification Installation costs, and Baseline costs.

4.8.1.3. Overhaul Cost Summary Records. Overhaul Cost Summary Records contain the *on-equipment* depot maintenance costs summarized to system (MDS or TMS) level. These costs are obtained from information contained in the “Type 3” records on the WSCRS Detail Data Base. Within each overhaul cost summary, costs are separately identified as Class IV Modification Installation costs, Class V Modification Installation costs, Interim Contractor Support-Depot

Level costs, Interim Contractor Support-Base Level costs, Contractor Logistics Support costs, and Baseline costs.

4.8.1.4. WBS Cost Summary Records. WBS Cost Summary Records contain both *on-equipment* and *off-equipment* depot maintenance and condemnation costs summarized by the weapon system work breakdown structure (WBS). These costs are obtained from information contained in the “Type 1”, “Type 2”, and “Type 3” records on the WSCRS Detail Data Base. Within each WBS, costs are identified as off-equipment exchangeable item repair costs and as on-equipment overhaul repair costs. The off-equipment exchangeable item costs and on-equipment overhaul costs are further separately identified as Class IV Modification Installation costs, Class V Modification Installation costs, Interim Contractor Support-Depot Level costs, Interim Contractor Support-Base Level costs, Contractor Logistics Support costs, and Baseline costs.

4.8.2. SDB Segment 2: Engines. SDB Segment 2 costs are summarized by TMS for each fiscal year. All engine costs are contained in one record type, the Engine Cost Record. The engine costs are summarized from information contained in “Type 1” *off-equipment* engine accessories and “Type 3” *on-equipment* engine overhaul records on the WSCRS DDB. Costs are separately identified as off-equipment engine accessories costs and as on-equipment engine overhaul costs. These off-equipment engine accessories costs and on-equipment overhaul costs are further separately identified as Class IV Modification Installation costs, Class V Modification Installation costs, Interim Contractor Support - Depot Level costs, Interim Contractor Support - Base Level costs, Contractor Logistics Support costs, and Baseline costs.

NOTE:

- a. Off-equipment Exchangeable Item costs are summarized from the WSCRS Detail Data Base (DDB) "Type 1" and "Type 2" records.
- b. On-equipment Overhaul costs are summarized from the DDB "Type 3" records.
- c. Class IV Modification Installation costs are summarized from the DDB records that have work performance category equal to H.
- d. Class V Modification Installation costs are summarized from DDB records with work performance category equal to C.
- e. Interim Contractor Support-Depot Level costs are summarized from DDB records with work performance category equal to 1.
- f. Interim Contractor Support-Base Level costs are summarized from DDB records with work performance category equal to 2.
- g. Contractor Logistics Support costs are summarized from DDB records with work performance category equal to W.
- h. Baseline costs are summarized from DDB records with work performance categories equal to A, B, D, E, F, G, I, J, K, L, M, and N.

Reference Attachment 2 for a description of all work performance categories.

Section C--DDB and SDB Product Calculations

4.9. Total, Organic, Contract, Fixed, and Variable Depot Maintenance Cost Calculations.

- a. **Total depot maintenance cost** is the sum of total organic depot maintenance cost and total contract depot maintenance cost:
- b. **Total organic depot maintenance cost** is the sum of the following cost elements:
 - Direct civilian labor cost
 - Other direct civilian labor cost
 - Direct military labor cost
 - Other direct military labor cost
 - Funded direct material cost
 - Funded other direct cost
 - Funded operations overhead cost
 - Funded general and administrative (G&A) overhead cost (also defined as fixed overhead cost)
 - Funded organic maintenance support cost
- c. **Total contract depot maintenance cost** is the sum of the following cost elements:
 - Contract and interservice cost
 - Government furnished expense material
 - Funded government furnished services
- d. **Fixed depot maintenance overhead cost** is equal to funded general and administrative (G&A) overhead costs.
- e. **Variable depot maintenance cost** is equal to total depot maintenance cost (organic plus contract) minus fixed overhead cost.

4.10. Cost Factors Computations. All depot maintenance cost factors displayed on the Summary Database reports are developed from *variable* costs only. Fixed depot maintenance overhead costs are not included in the depot maintenance costs factors as specified in the OSD CAIG Guide. For aircraft products, three depot maintenance cost per aircraft factors and three depot maintenance cost per *aircraft* flying hour factors are calculated. For missile products, one depot maintenance cost per missile factor is calculated. For engine products, three depot maintenance cost per engine factors or three depot maintenance cost per *engine* flying hour factors are calculated. One condemnation cost per *aircraft* flying hour factor is calculated for aircraft. One condemnation cost per missile factor is calcu-

lated for missiles. One condemnation cost per *engine* flying hour factor is calculated for aircraft engines. One condemnation cost per engine factor is calculated for missile engines. The flying hour factor is based on actual flying hours, not programmed flying hours. The inventory factor can be based on four different inventory options:

- a. TAI - total aerospace vehicle inventory
- b. PAA - primary aerospace vehicle authorization
- c. PAI - primary aerospace vehicle inventory
- d. OAC - average operating active inventory

4.10.1. Aircraft Cost Factors. The aircraft cost factors are not stand alone factors for an MDS. A portion of the *variable* MDS cost is used to develop the aircraft inventory related factors, the remainder of the *variable* costs are used to develop the aircraft flying hour related factors. [Note: The aircraft inventory factor and aircraft flying hour factor must be used together to get total variable MDS cost.]

4.10.1.1. WBS Level Aircraft Factors. AFR 173-4 *Aircraft and Missile Depot Maintenance Cost Factors* directed how the cost factors were computed. Aircraft variable depot maintenance costs are both inventory and flying hour driven. Aircraft variable on-equipment overhaul costs are assumed to be 100 percent inventory driven, variable engine overhaul and engine accessories costs are assumed to be 100 percent flying hour driven. All other aircraft variable depot maintenance costs are assumed to be 35 percent inventory driven and 65 percent flying hour driven. Base level support equipment costs are not included in the cost factors. All aircraft condemnation costs are assumed to be 100 percent flying hour driven. The table below shows the aircraft variable depot maintenance cost breakout by WBS, followed by cost calculations relating the percentages shown to the appropriate WBS:

Table 4.1. Aircraft Depot Maintenance Variable Cost

WBS Group	%Variable Cost - Inventory Related (WBS% _{INV})	% Variable Cost - Flying Hour Related (WBS% _{FH})	Variable Costs Notation
AF	100%	0%	VAF
EO	0%	100%	VEO
EA	0%	100%	VEA
AA	35%	65%	VAA
VI	35%	65%	VVI
VC	35%	65%	VVC
VN	35%	65%	VVN
AR	35%	65%	VAR

a. **Aircraft WBS Usage Related Cost Factors** (one for each WBS group value):

$$\text{WBS Depot Maintenance } \$/\text{FH} = \frac{(\text{WBS Variable Cost})(\text{WBS}\%_{\text{FH}})}{\text{MDSFH}}$$

where

$$\text{MDSFH} = \text{MDS flying hours in the fiscal year}$$

b. **Aircraft WBS Inventory Related Cost Factors** (one for each WBS group value):

$$\text{WBS Depot Maintenance } \$/\text{Aircraft} = \frac{(\text{WBS Variable Cost})(\text{WBS}\%_{\text{INV}})}{\text{INV}}$$

where

$$\text{INV} = \text{the TAI, PAA, PAI, or OAC inventory value}$$

c. **Aircraft WBS Condemnation Cost Factors:**

$$\text{WBS Condemnation } \$/\text{FH} = \frac{\text{WBS Condemnation Cost}}{\text{MDSFH}}$$

4.10.1.2. MDS Level Aircraft Cost Factors. At MDS level, six depot maintenance (DM) cost factors and one condemnation cost factor are developed.

a. **Aircraft MDS Usage Related Composite Cost Factor** comprises the MDS Usage Related Overhaul Cost Factor and the MDS Usage Related Component Cost Factor. The composite factor equation is shown below, followed by each term shown separately:

$$\text{DM Composite } \$/\text{FH} = \text{DM Overhaul } \$/\text{FH} + \text{DM Component } \$/\text{FH}$$

which expands to

$$\text{DM Composite } \$/\text{FH} = \frac{\text{VEO} + \text{VEA} + .65(\text{VAA} + \text{VVI} + \text{VVC} + \text{VVN} + \text{VAR})}{\text{MDSFH}}$$

1) **Aircraft MDS Usage Related Overhaul Cost Factor:**

$$\text{DM Engine Overhaul } \$/\text{FH} = \frac{\text{VEO}}{\text{MDSFH}}$$

2) **Aircraft MDS Usage Related Component Cost Factor:**

$$\text{DM Component } \$/\text{FH} = \frac{\text{VEA} + .65(\text{VAA} + \text{VVI} + \text{VVC} + \text{VVN} + \text{VAR})}{\text{MDSFH}}$$

b. **Aircraft MDS Inventory Related Composite Cost Factor** comprises the MDS Inventory Related Overhaul Cost Factor and the MDS Inventory Related Component Cost Factor. The composite factor equation is shown below, followed by each term shown separately:

$$\text{DM Composite } \$/\text{Aircraft} = \text{DM Overhaul } \$/\text{Aircraft} + \text{DM Component } \$/\text{Aircraft}$$

which expands to

$$\text{DM Composite } \$/\text{Aircraft} = \frac{\text{VAF} + .35(\text{VAA} + \text{VVI} + \text{VVC} + \text{VVN} + \text{VAR})}{\text{INV}}$$

where

$$\text{INV} = \text{the TAI, PAA, PAI, or OAC inventory value}$$

1) **Aircraft MDS Inventory Related Overhaul Cost Factor:**

$$\text{DM Overhaul } \$/\text{Aircraft} = \frac{\text{VAF}}{\text{INV}}$$

where

$$\text{INV} = \text{the TAI, PAA, PAI, or OAC inventory value}$$

2) **Aircraft MDS Inventory Related Component Cost Factor:**

$$\text{DM Component } \$/\text{Aircraft} = \frac{.35(\text{VAA} + \text{VVI} + \text{VVC} + \text{VVN} + \text{VAR})}{\text{INV}}$$

where

$$\text{INV} = \text{the TAI, PAA, PAI, or OAC inventory value}$$

c. **Aircraft MDS Condemnation Cost Factor:**

$$\text{Condemnation } \$/\text{FH} = \frac{\text{Total MDS Condemnation Cost}}{\text{MDSFH}}$$

4.10.2. Missile Cost Factors. The missile depot maintenance cost factor is based on the total *variable* costs only. All missile depot maintenance costs and condemnation costs are assumed to be 100 percent inventory driven. Missile costs calculations:

a. **Depot Maintenance Cost per Missile Factor:**

$$\text{Depot Maintenance } \$/\text{Missile} = \frac{\text{Total MDS Variable Cost}}{\text{INV}}$$

where

$$\text{INV} = \text{the TAI, PAA, PAI, or OAC inventory value}$$

b. **Condemnation Cost per Missile Factor:**

$$\text{Condemnation } \$/\text{Missile} = \frac{\text{Total MDS Condemnation Cost}}{\text{INV}}$$

where

$$\text{INV} = \text{the TAI, PAA, PAI, or OAC inventory value}$$

4.10.3. Engine Cost Factors. The engine cost factors are based on total *variable* costs. For an aircraft engine, all engine depot maintenance and condemnation costs are assumed to be 100% flying hour related. For a missile engine, all engine depot maintenance and condemnation costs are assumed to be 100% inventory related.

a. Aircraft Engine Composite Cost Factor

$$\text{DM Composite \$ / EFH} = \frac{\text{EO Variable Cost} + \text{EA Variable Cost}}{\text{EFH}}$$

1) Aircraft Engine Overhaul Cost Factor:

$$\text{DM Engine Overhaul \$ / EFH} = \frac{\text{EO Variable Cost}}{\text{EFH}}$$

2) Aircraft Engine Accessories Cost Factor:

$$\text{DM Engine Accessories \$ / EFH} = \frac{\text{EA Variable Cost}}{\text{EFH}}$$

b. Aircraft Engine Condemnation Cost Factor:

$$\text{Condemnation \$ / EFH} = \frac{\text{EA Condemnation Cost}}{\text{EFH}}$$

c. Missile Engine Composite Cost Factor

$$\text{DM Composite \$ / Missile Engine} = \frac{\text{EO Variable Cost} + \text{EA Variable Cost}}{\frac{\text{TMSINV}}{12}}$$

1) Missile Engine Overhaul Cost Factor:

$$\text{DM Engine Overhaul \$ / Missile Engine} = \frac{\text{EO Variable Cost}}{\frac{\text{TMSINV}}{12}}$$

2) Missile Engine Accessories Cost Factor:

$$\text{DM Engine Accessories \$ / Missile Engine} = \frac{\text{EA Variable Cost}}{\frac{\text{TMSINV}}{12}}$$

d. Missile Engine Condemnation Cost Factor:

$$\text{Condemnation \$ / Missile Engine} = \frac{\text{EA Condemnation Cost}}{\frac{\text{TMSINV}}{12}}$$

4.10.4. Assumptions and Constraints. The assumption that some costs are 100 percent inventory driven, 100 percent usage driven, or a 35 percent-65 percent mixture cannot be totally accurate. Intuitively, one would suspect these percentages would vary with the age of the aircraft, type of aircraft, kinds of missions flown, climate, modification programs, etc. However, these percentages have been used as standards since the early 1970s in the development of depot maintenance cost factors, and are as directed by Air Staff in AFR 173-4 *Aircraft and Missile Depot Maintenance Cost Factors*.

4.11. Cost Escalation. All reports generated from either the WSCRS Detail Data Base or the WSCRS Summary Data Base

can have costs escalated and displayed in constant-year dollars. Individual cost elements are escalated using one of six different escalation rates. There is one rate each for civilian pay, military pay, engine material, avionics material, airframe material, and Operations and Maintenance (O&M) non pay. The rates are obtained from AFI 65-503, table A5-1, USAF Raw Inflation Indices, and table A5-3, Historical Aircraft Component Inflation Indices. The rates used to escalate material costs are dependent on the WBS group, for example, the engine material rate is used to escalate material costs for engine overhaul and engine accessories.

a. The civilian pay rate is obtained from AFI 65-503, table A5-1, General Service and Wage Board Pay (3400). The civilian pay rate is used to escalate direct civilian labor cost, other direct civilian labor cost, funded and unfunded operations overhead costs.

b. The military pay rate is obtained from AFI 65-503, table A5-1, Military Compensation Total (3500). The military pay rate is used to escalate direct military labor costs and other direct military labor costs.

c. The O&M non-pay rate is obtained from AFI 65-503, table A5-1, Operations and Maintenance Non-Pay, Non-POL (3400). The O&M non-pay rate is used to escalate funded and unfunded other direct costs, funded and unfunded general and administrative overhead costs, contract and interservice costs, funded and unfunded government furnished services, funded and unfunded organic maintenance support costs, Interim Contractor Support costs, and Contractor Logistics Support costs.

d. The cost elements escalated by the material escalation rates are direct material cost, unfunded direct material costs for investment, exchange, modification kits, and expense items, government furnished material for investment, exchange, modification kits, and expense items, and condemnation costs.

1) The engine material rate is obtained from AFI 65-503, table A5-3, Engine Index. The engine material rate is used to escalate material costs in WBS groups for engine overhaul (EO), engine accessories (EA), and propulsion system (PS).

2) The avionics material rate is obtained from AFI 65-503, table A5-3, Avionics Index. The avionics material rate is used to escalate material costs in WBS groups for avionics instrumentation (VI), avionics communication (VC), avionics navigation (VN), guidance system (GS), and surface communication and control (SC).

3) The airframe material rate is obtained from AFI 65-503, table A5-3, Airframe Index. The airframe material rate is used to escalate material costs in WBS groups for aircraft overhaul (AF), aircraft accessories (AA), armament accessories (AR), missile overhaul (MO), missile frame (MF), missile accessories (MA), support and launch system (SL), payload system (PL), and support equipment (SU).

Chapter 5

REQUESTING WSCRS PRODUCTS

Section A--Standard Procedures

5.1. Availability of WSCRS Data. In general, all weapon systems cost data in WSCRS are releasable. All WSCRS data are unclassified. Procedures governing the release of data are contained in HQ AFMC/FMP policy and procedures, and in AFI 37-131 for Freedom of Information Act Program requests. All data are released through HQ AFMC/FMP. Requests for data may be made for the system products described in chapter 3. The data can be requested on print copy, database extract tape, floppy disk, or CD-ROM. Special requests for data or formats not currently provided by WSCRS will be processed based on the user's justification and the availability of resources required to accomplish the request.

5.2. Submitting Requests. Submit all requests for WSCRS data to HQ AFMC/FMP. Contractor requests must be submitted by letter. Contractor priority requests will be accepted by telephone, but release of the information will be withheld pending receipt and approval of the written request. Address and telephone numbers for submission are:

HQ AFMC/FMP
4375 Chidlaw Road, Room N233
Wright-Patterson AFB, Ohio 45433-5006
Telephone: (937)-257-7047
DSN: 787-7047

Call to get the appropriate e-mail address for the WSCRS OPR.

5.3. Forming a Request. Every request for data must contain the following information:

- a. Name and address of the requesting organization.
- b. Name, office, telephone number, and e-mail address of the requesting individual.
- c. Brief description of the use of the data.
- d. Specific data required. The data must be identified by specifying the interrogation parameters described later in this chapter.
- e. Date the information is needed.

5.3.1. Contractor Requests. Contractor requests must be in writing. In addition to the information listed above, contractors requesting data in support of a government contract must also specify the following information:

- a. Contract name and contract number.
- b. Name, address, telephone number, and e-mail address of the Air Force contact (ACO, PCO, DPRO, or program office).

To avoid undue delay in approving a data request for support of a contract, the contractor must send the letter to the Air Force contact. The Air Force contact must add a statement certifying that these data are necessary in fulfilling the contract, and the Air Force contact must then add his/her written coordination before forwarding the letter request to HQ AFMC/FMP.

Section B--Specifying a Request

5.4. Interrogations for Data on the WSCRS Detail Database. The data requested from the WSCRS Detail Database will be extracted based on the interrogation parameter information provided in the data request. The data request must specify all “required” parameters; “optional” parameters must be specified if an output other than the default option is desired. All interrogation parameters applicable to the WSCRS Detail Database are described in the figure on the opposite page. Helpful reference material is shown below:

Table 5.1. Detail Database Reports List

Product Control Number/File Name	Report Name
Q-H036C-D01-IR-8IR	FYxx Detail Weapon System Cost Summary
Q-H036C-D02-IR-8IR	FYxx Condemnation Cost Ranking
Q-H036C-D03-IR-8IR	FYxx Component Depot Maintenance Cost Ranking
Q-H036C-D04-IR-8IR	FYxx Depot Maintenance Costs
DET.DWNnnD0.PRN	Download MDS Cost Reports
Q-H036C-E01-IR-8IR	FYxx Detail Engine Cost Summary
Q-H036C-E02-IR-8IR	FYxx Engine Condemnation Cost Ranking
Q-H036C-E03-IR-8IR	FYxx Engine Depot Maintenance Cost Ranking
Q-H036C-E04-IR-8IR	FYxx Engine Depot Maintenance Costs
DET.DWNnnE0.PRN	Download TMS Cost Report
FYxx Weapon System Commonality Report	
Q-H036C-250-IR-8IR	Part A: MDS Summary
Q-H036C-251-IR-8IR	Part B: Modified Fleet Summary
Q-H036C-252-IR-8IR	Part C: Fleet Summary
Q-H036C-253-IR-8IR	Part D: Mission Summary
Q-H036C-254-IR-8IR	Part E: Grand Total Summary
FYxx Recoverable Item Distribution Report	
Q-H036C-960-IR-8IR	Part A: MDS Summary
Q-H036C-961-IR-8IR	Part B: Modified Fleet Summary
Q-H036C-962-IR-8IR	Part C: Fleet Summary
Q-H036C-963-IR-8IR	Part D: Mission Summary
Q-H036C-964-IR-8IR	Part E: Grand Total Summary
Detail Database Extract	
DET.DDBMFnn.PRN	DDB Extract (in mainframe format)
DET.DDBPCnn.PRN	DDB Extract (in PC format)

Table 5.2. Aircraft System Work Unit Codes

Code	Description	Code	Description
11	Airframes	56	Automatic All Weather Landing System
12	Cockpit and Fuselage Compartments	57	Integrated Guidance and Flight Control (includes Auto Pilot when part of Integrated System)
13	Landing Gear	58	In-flight Test Equipment
14	Flight Control	59	Target Scoring and Augmentation
15	Helicopter Rotor System	60	VLF/LF Communications
16	Escape Capsule	61	High Frequency (HF) Communications
17	Aerial Recovery System	62	Very High Frequency (VHF) Communications
18	Vertical or Short Takeoff and Landing (V/STOL) Power and Transmission System	63	Ultra High Frequency (UHF) Communications
19	Engine Starting	64	Interphone
21	Reciprocating Power Plant	65	Identification Friend or Foe
22	Turboprop or Turbofan Power Plant	66	Emergency Communications
23	Turbojet or Turbofan Power Plant	67	Super/Extra High Frequency (SHF/EHF)

Table 5.2. (Continued) Aircraft System Work Unit Codes

Code	Description	Code	Description
24	Auxiliary Power Plant	68	Air Force Satellite Communications (AFSATCOM) System
25	Rocket Power Plant	69	Miscellaneous Equipment
26	Helicopter Rotary Wing Drive System	71	Radio Navigation
27	Turbojet/Turbofan Propulsion System (Continuation of WUC 23)	72	Radar Navigation
31	Electric Propeller	73	Bombing Navigation
32	Hydraulic Propeller	74	Fire Control
33	Electro Hydraulic Propeller	75	Weapon Delivery
34	Mechanical and Fixed Pitch Propeller	76	Electronic Countermeasure
39	Ice and Rain Protection	77	Photographic/Reconnaissance
41	Air Conditioning, Pressurization, and Surface Ice Control	78	ECM Special Systems (continuation of WUC 76)
42	Electrical Power Supply	79	Global Positioning System
43	Electrical Multiplex (EMUX)	81	Airborne Command and Control Surveillance Radar (AWACS)
44	Lighting System	82	Computer and Data Display (Graphic)
45	Hydraulic and Pneumatic Power Supply	89	Airborne Battlefield Command Control Center (Capsule)
46	Fuel System	91	Emergency Equipment
47	Oxygen System	92	Tow Target Equipment
48	Indicating/Recording	78	ECM Special Systems (continuation of WUC 76)
49	Miscellaneous Utilities	94	Meteorological Equipment
51	Instrument	95	Smoke Generator, Scoring and Target Area, Augmentation Systems, and Airborne Cooperational Equipment
52	Autopilot	96	Personnel and Miscellaneous Equipment
53	Drone Airborne Launch and Guidance Systems	97	Explosive Devices and Components
54	Telemetry	98	Atmospheric Research Equipment
55	Malfunction Analysis and Recording Equipment	99	Support Equipment

Table 5.3. Work Performance Category Codes (active)

Code	Category	Code	Category
A	Overhaul	K	Manufacture
B	Progressive Maintenance	L	Reclamation
C	Conversion (Class V Mod)	M	Storage
D	Activation	N	Technical Assistance
E	Inactivation	W	Contractor Logistics Support (CLS)
F	Renovation	1	Interim Contractor Support (ICS)-Depot Level
G	Analytical Rework	2	Interim Contractor Support (ICS)-Base Level
H	Modification (Class IV Mod)		
I	Repair		
J	Inspection and Test		

Table 5.4. Work Breakdown Structure Group Codes

Aircraft		Missile	
Code	Definition	Code	Definition
AA	Aircraft Accessories	GS	Guidance System
AF	Aircraft Overhaul	MA	Missile Accessories
AR	Armament	MF	Missile Frame
EA	Engine Accessories	MO	Missile Overhauls
EO	Engine Overhaul	PL	Payload System
SU	Support Equipment	PS	Propulsion System
VC	Avionics Communication	SC	Surface Communication and Control
VI	Avionics Instrumentation		
VN	Avionics Navigation	SL	Support and Launch

**Figure 5.1. Weapon System Cost Retrieval System (H036C)
Detail Database Product Request Worksheet**

<p>a. Product Identification. List Product Control Numbers (PCN):</p>	<p>g. WUC. List individual aircraft system-level Work Unit Codes(SWUC):</p>
<p>b. Fiscal Year Data. FY75-FY93: <input type="checkbox"/> Specific fiscal year: <input type="checkbox"/> Range of fiscal years (to request multiple fiscal years):</p>	<p>h. NSN. List individual stock numbers (NSN):</p>
<p>c. Fiscal Year Dollars.</p>	<p>i. FSC. List individual Federal Supply Classes (FSC):</p>
<p>d. Item Level. <input type="checkbox"/> Off-equipment exchangeable item costs only <input type="checkbox"/> On-equipment exchangeable item costs only <input type="checkbox"/> Both off-equipment and on-equipment costs (default)</p>	<p>j. WPC. List individual Work Performance Codes (WPC):</p>
<p>e. MDS. List desired weapon systems:</p>	<p>k. WBS. List individual WBS Group Codes (WBS):</p>
<p>f. TMS. List desired weapon engines:</p>	<p>l. Media. <input type="checkbox"/> Print copy <input type="checkbox"/> Tape <input type="checkbox"/> Floppy disk <input type="checkbox"/> CD-ROM</p>

a. Product Identification (required). Identifies the individual WSCRS products desired.

b. Fiscal Year Data (required). Identifies the fiscal year(s) data desired. Values must be in the range FY75-FY93. Options available:

- Specific fiscal year.
- Range of fiscal years, when requesting multiple fiscal years.

c. Fiscal Year Dollars (required for constant-year dollar reports). Specifies the fiscal year dollars to which the fiscal year cost is to be escalated and displayed on a product. If costs are not to be escalated, this parameter is not specified.

d. Item Level (optional). Specifies that off-equipment exchangeable item and/or on-equipment overhaul costs are desired. Options available:

- Off-equipment exchangeable item costs only.
- On-equipment overhaul item costs only.
- Both off-equipment and on-equipment costs (default).

e. MDS (optional). Specifies the desired weapon system MDSs. Options available:

- List of individual MDSs (e.g., A010A, F004E, KC135A, AIM009L).
- All MDS in fleet with a specific modified mission (e.g., all EC135s, all MC130s).
- All MDS in fleet (e.g., all F015s, all C130s).
- All MDS in mission (e.g., all attack aircraft, all fighter aircraft).

f. TMS (optional). Specifies the propulsion system TMSs desired. Options available:

- All TMS.
- All TMS by type, model (e.g., all TF30s, all J79s).
- All TMS by type (e.g., all turbofans, all turbojets).
- List of individual TMS (e.g., TF0039001C, F0100100).

g. WUC (optional). Specifies that cost data be extracted for two-digit system-level work unit codes (SWUCs). Options available:

- List of individual SWUCs (e.g., 23, 74).

h. NSN (optional). Specifies that cost data be extracted for specific stock numbers. Options available:

- All NSNs on the weapon system (default).
- List of individual NSNs. Specified stock numbers must be subgroup master or master stock numbers. Interchangeable and Substitutable (I&S) stock number identity is not retained in WSCRS. I&S stock number costs are included in and reported as the subgroup master or master stock number. The stock number list provided must include all desired component, subassembly, and assembly stock numbers.

i. FSC (optional). Specifies that cost data be extracted for specific federal supply classes. Options available:

- All FSCs on the weapon system (default).
- List of individual FSCs.

j. WPC (optional). Specifies that cost data be extracted for specific depot maintenance work performance categories. Options available:

- All WPCs except "C" and "H" (default).
- List of individual WPCs.

k. WBS (optional). Specifies that cost data be extracted for specific weapon system work breakdown structure group codes. Options:

- All WBS groups (default).
- List of individual WBS groups.

l. Media (required). Specifies the media for the requested WSCRS product. Options available:

- Print copy.
- Floppy Disk.
- Tape.
- CD-ROM.

5.5. Interrogations for Data on the WSCRS Summary

Data Base. The data requested from the WSCRS Summary Data Base will be extracted based on the interrogation parameters provided in the data request. The data request must specify all “required” parameters; “optional” parameters must be specified if other than the default option is desired. All interrogation parameters applicable to the WSCRS Summary Database are described in the figure on the opposite page. Helpful reference material is shown below.

Table 5.5.
Summary Database Product Control Numbers

Product Control Number/Filename	Report Name
Schedule 1: FYxx-FYyy Cost Factors in FYzz Dollars	
Q-H036C-S10-IR-8IR	Part A: MDS Summary
Q-H036C-S11-IR-8IR	Part B: Modified Fleet Summary
Q-H036C-S12-IR-8IR	Part C: Fleet Summary
Q-H036C-S13-IR-8IR	Part D: Mission Summary
SUM.DWNS1.PRN	Download S-10 Series MDS Cost Report
Schedule 2: FYxx-FYyy Cost Factors in Then Dollars	
Q-H036C-S20-IR-8IR	Part A: MDS Summary
Q-H036C-S21-IR-8IR	Part B: Modified Fleet Summary
Q-H036C-S22-IR-8IR	Part C: Fleet Summary
Q-H036C-S23-IR-8IR	Part D: Mission Summary
SUM.DWNS2.PRN	Download S-20 Series MDS Cost Report
Schedule 3: FYxx Cost Summary in FYxx Dollars	
Q-H036C-S30-IR-8IR	Part A: MDS Summary
Q-H036C-S31-IR-8IR	Part B: Modified Fleet Summary
Q-H036C-S32-IR-8IR	Part C: Fleet Summary
Q-H036C-S33-IR-8IR	Part D: Mission Summary
Q-H036C-S34-IR-8IR	Part E: Grand Total Summary
SUM.DWNS3.PRN	Download S-30 Series MDS Cost Report
Schedule 4: FYxx Cost Summary in FYzz Dollars	
Q-H036C-S40-IR-8IR	Part A: MDS Summary
Q-H036C-S41-IR-8IR	Part B: Modified Fleet Summary
Q-H036C-S42-IR-8IR	Part C: Fleet Summary
Q-H036C-S43-IR-8IR	Part D: Mission Summary
Q-H036C-S44-IR-8IR	Part E: Grand Total Summary
SUM.DWNS4.PRN	Download S-40 Series MDS Cost Report
Schedule 5: FYxx-FYyy Engine Cost Factors in FYzz Dollars	
Q-H036C-S50-IR-8IR	Part A: TMS (Individual) Summary
Q-H036C-S51-IR-8IR	Part B: TMS (Grouped) Summary
Q-H036C-S52-IR-8IR	Part C: TMS (Family) Summary
SUM.DWNS5.PRN	Download S-50 Series TMS Cost Report

Table 5.5. (Continued)
Summary Database Product Control Numbers

Product Control Number/Filename	Report Name
Schedule 6: FYxx-FYyy Engine Cost Factors in Then Dollars	
Q-H036C-S60-IR-8IR	Part A: TMS (Individual) Summary
Q-H036C-S61-IR-8IR	Part B: TMS (Grouped) Summary
Q-H036C-S62-IR-8IR	Part C: TMS (Family) Summary
SUM.DWNS6.PRN	Download S-60 Series TMS Cost Report
Schedule 7: FYxx Engine Cost Summary in FYxx Dollars	
Q-H036C-S70-IR-8IR	Part A: TMS (Individual) Summary
Q-H036C-S71-IR-8IR	Part B: TMS (Grouped) Summary
Q-H036C-S72-IR-8IR	Part C: TMS (Family) Summary
SUM.DWNS7.PRN	Download S-70 Series TMS Cost Report
Schedule 8: FYxx Engine Cost Summary in FYzz Dollars	
Q-H036C-S80-IR-8IR	Part A: TMS (Individual) Summary
Q-H036C-S81-IR-8IR	Part B: TMS (Grouped) Summary
Q-H036C-S82-IR-8IR	Part C: TMS (Family) Summary
SUM.DWNS8.PRN	Download S-80 Series TMS Cost Report
Summary Database Interrogation Extracts	
SUM.SEG1.PRN	SDB Segment 1 Extract (in mainframe format)
SUM.SEG1PC.PRN	SDB Segment 1 Extract (in PC format)
SUM.SEG2.PRN	SDB Segment 2 Extract (in mainframe format)
SUM.SEG2PC.PRN	SDB Segment 2 Extract (in PC format)
SUM.DMCF.PRN	Depot Maintenance Cost Factors Data
SUM.EXCH.PRN	Exchangeables Repair Cost Data

Table 5.6. Work Breakdown Structure Group Codes

Aircraft		Missile	
Code	Definition	Code	Definition
AA	Aircraft Accessories	GS	Guidance System
AF	Aircraft Overhaul	MA	Missile Accessories
AR	Armament	MF	Missile Frame
EA	Engine Accessories	MO	Missile Overhauls
EO	Engine Overhaul	PL	Payload System
SU	Support Equipment	PS	Propulsion System
VC	Avionics Communication	SC	Surface Communication and Control
VI	Avionics Instrumentation		
VN	Avionics Navigation	SL	Support and Launch

**Figure 5.2. Weapon System Cost Retrieval System (H036C)
Summary Database Product Request Worksheet**

<p>a. Product Identification. List Product Control Numbers (PCN):</p> <p>b. Fiscal Year Data. FY75-FY93: <input type="checkbox"/> Specific fiscal year: <input type="checkbox"/> Range of fiscal years (to request multiple fiscal years):</p> <p>c. Fiscal Year Dollars.</p> <p>d. MDS. List desired weapon systems:</p> <p>e. TMS. List desired weapon engines:</p> 	<p>f. Class IV. <input type="checkbox"/> Include <input type="checkbox"/> Exclude (Default)</p> <p>g. Class V. <input type="checkbox"/> Include <input type="checkbox"/> Exclude (Default)</p> <p>h. ICS. <input type="checkbox"/> Include (Default) <input type="checkbox"/> Exclude</p> <p>i. CLS. <input type="checkbox"/> Include (Default) <input type="checkbox"/> Exclude</p> <p>j. Baseline. <input type="checkbox"/> Include (Default) <input type="checkbox"/> Exclude</p> <p>k. WBS. List individual WBS Group Codes (WBS):</p> <p>l. Exchangeable. <input type="checkbox"/> Include (Default) <input type="checkbox"/> Exclude</p> <p>m. Overhaul. <input type="checkbox"/> Include (Default) <input type="checkbox"/> Exclude</p> <p>n. Media. <input type="checkbox"/> Print copy <input type="checkbox"/> Tape <input type="checkbox"/> Floppy disk <input type="checkbox"/> CD-ROM</p>
--	--

a. Product Identification (required). Identifies the individual WSCRS products desired.

b. Fiscal Year Data (required). Specifies the fiscal year(s) data desired. Values must be in the range FY75-FY93. Options available:

- Individual fiscal year.
- Range of fiscal years, when requesting multiple years data.
- All fiscal years.

c. Fiscal Year Dollars. Specifies the fiscal year dollars to which the fiscal year cost is to be escalated and displayed on a product. This parameter does not apply to then-dollar reports (Schedule 2, Schedule 3, Schedule 6, and Schedule 7). If constant-year dollar reports (Schedule 1, Schedule 4, Schedule 5, and Schedule 8) are requested, the fiscal year constant dollar base must be specified.

d. MDS (optional). Specifies the desired weapon system MDSs. Options available:

- List of individual MDSs (e.g., A010A, F004E, KC135A, AIM009L).
- All MDS in fleet with a specific modified mission (e.g., all EC135s, all MC130s).
- All MDS in fleet (e.g., all F015s, all C130s).
- All MDS in mission (e.g., all attack aircraft, all fighter aircraft).

e. TMS (optional). Specifies the propulsion system TMSs desired. Options available:

- All TMS.
- All TMS by type, model (e.g., all TF30s, all J79s).
- All TMS by type (e.g., all turbofans, all turbojets).
- List of individual TMS (e.g., TF0039001C, F0100100).

f. Class IV (optional). Specifies if Class IV Modification Installation costs are to be selected. Options available:

- Include.
- Exclude (default).

g. Class V (optional). Specifies if Class V Modification Installation costs are to be selected. Options available:

- Include.
- Exclude (default).

h. ICS (optional). Specifies if Interim Contractor Support-Depot Level and Interim Contractor Support-Base Level costs are to be selected. Options available:

- Include (default).
- Exclude.

i. CLS (optional). Specifies if Contractor Logistics Support costs are to be selected. Options available:

- Include (default).
- Exclude.

j. Baseline (optional). Specifies if Baseline costs are to be selected. Options available:

- Include (default).
- Exclude.

k. WBS (optional). Specifies that costs are to be selected only for specific weapon system work breakdown structure (WBS) groups. Options available:

- All WBS groups except "SU" (default).
- List of individual WBS groups.

l. Exchangeable (optional). Specifies if off-equipment exchangeable item costs are to be selected. Options available:

- Include (default).
- Exclude.

m. Overhaul (optional). Specifies if on-equipment overhaul costs are to be selected. Options available:

- Include (default).
- Exclude.

n. Media (required). Specifies the media for the requested WSCRS product. Options available:

- Print copy.
- Floppy Disk.
- Tape.
- CD-ROM.

5.6. Interrogations for Data on the WSCRS Weapon System Program Database. The data requested from the Weapon System Program Data Base will be extracted based on the interrogation parameters provided in the data request. All interrogation parameters applicable to the Weapon System Program Data Base are described in the following paragraphs:

a. Product Identification (required). Identifies the individual reports desired. Options available:

- Standard-Actual MDS PA Data PCN: Q-H036C-A51-PA-8PA. This report is produced in two different sequences and contains all weapon system MDSs for all fiscal years (FY75-latest FY).]
- Weapon System Program Data (WSPD) PCN: Q-H036C-A91-PA-8PA. This report is produced for the selected MDSs for all fiscal years (FY75-latest FY).]
- Engine Program Data (EPD) PCN: Q-H036C-B91-PA-8PA. This report is produced for the selected TMSs for all fiscal years (FY75-latest FY).]

b. MDS/TMS (required). Specifies the desired aircraft or missile weapon system MDSs contained in the Weapon System Program Data (WSPD) report, or the desired engine TMSs contained in the Engine Program Data (EPD) report. Options available:

- Produce the WSPD report (containing only the aircraft or missile MDSs specified), or the EPD report (containing only the engine TMSs specified) *in conjunction with* a WSCRS Detail Database interrogation.
- Produce the WSPD report (containing only the aircraft or missile MDSs specified) or the EPD report (containing only the engine TMSs specified) *in conjunction with* a WSCRS Summary Database interrogation.

GLOSSARY OF REFERENCES, ABBREVIATIONS AND ACRONYMS, AND DEFINITIONS

Section A--References

A1.1. Interfacing Systems References.

AFLCR 57-4	<i>Recoverable Consumption Item Requirements System (D041)</i>
AFLCR 57-130	<i>Past Program Data System (AFMC) (D200)</i>
AFLCR 72-2	<i>Cataloging and Standardization</i>
AFLCR 170-10	<i>Depot Maintenance Service, Air Force Industrial Fund (DMS, AFIF) Financial Procedures</i>
AFM 67-1	<i>USAF Supply Manual</i>
AFR 65-110	<i>Aerospace Vehicle and Equipment Inventory, Status, and Utilization Reporting System (AVISURS)</i>
AFR 170-10	<i>Air Force Industrial Fund</i>
AFR 170-21	<i>Depot Maintenance Service, Air Force Industrial Fund</i>
AFR 400-31	<i>VAMOSC Weapon System Support Costs (WSSC)</i>
DOD 7220.29H	<i>Depot Maintenance Support Cost Accounting and Production Reporting Handbook</i>

A1.2. Other References.

WSCRS HRM	<i>H036C (WSCRS) Historic Reference Manual</i>
WSCRS OI 2	<i>WSCRS Policy and Procedures for Processing Data Requests</i>
WSCRS OI 3	<i>H036C (WSCRS) Interrogation Users Manual</i>
WSCRS OI 4	<i>H036C (WSCRS) OPR Users Manual For Annual Cycle Processing</i>
WSCRS Web Site	<i>www.afmc-pub.wpafb.af.mil/HQ-AFMC/FM/WSCRS/wscrs.htm</i>
AFI 37-131	<i>Air Force Freedom of Information Act Program</i>
AFI 65-503	<i>USAF Cost and Planning Factors Guide</i>
AFR 173-4	<i>Aircraft and Missile Depot Maintenance Cost Factors</i>
AFR 700-3	<i>Communications - Computer Systems Requirements Processing</i>
AFR 700-4	<i>Communications - Computer Systems Program Management</i>
CAIG Guideline	<i>Cost Estimating Guide For Operating and Support Costs prepared by the Office of the Secretary of Defense, Cost Analysis Improvement Group (CAIG)</i>
DOD 4120.15L	<i>Model Designation of Military Aircraft, Rockets, and Guided Missiles</i>
DOD 7935.1-S	<i>Automated Data Systems Documentation Standards</i>
H2-1	<i>Cataloging Handbook Federal Supply Classification, Part 1, Groups and Classes</i>
MIL-M-38769C (USAF)	<i>Work Unit Code Technical Manual</i>
MIL-STD 780F (AS)	<i>Work Unit Codes for Aeronautical Equipment, Uniform Numbering System</i>
PA Volume I	<i>USAF Program for Aircraft and Flying Hours by MDS</i>
PA Volume III	<i>USAF Program For Strategic Missiles, Air Launched Cruise Missiles, Ground Launched Cruise Missiles, Remotely Piloted Vehicles, and Target Drones</i>
TAMP	<i>USAF Tactical Air Missiles Program (TAMP) TAD Volume 1</i>
TMP	<i>USAF Theater Munitions Program (TMP) TAD Volume 2</i>
	<i>Air Force Magazine, Air Force Almanac</i>
	<i>Cost Information Handbook on Depot Maintenance prepared by HQ AFMC/FMP, 1 Nov. 81.</i>

Section B--Abbreviations and Acronyms**Table A1.1. Acronyms and Terms**

Acronym	Term
ACO	Administrative Contracting Officer
ADS	Automated Data System
AF	Air Force
AFCAA	Air Force Cost Analysis Agency
AFI	Air Force Instruction
AFLC	Air Force Logistics Command
AFLCM	Air Force Logistics Command Manual
AFLCP	Air Force Logistics Command Pamphlet
AFLCR	Air Force Logistics Command Regulation
AFMAN	Air Force Manual
AFMC	Air Force Materiel Command
AFMCMAN	Air Force Materiel Command Manual
AFMCP	Air Force Materiel Command Pamphlet
AFMCR	Air Force Materiel Command Regulation
AFR	Air Force Regulation
AFTOC	Air Force Total Ownership Cost
ALC	Air Logistics Center
APPL	Application
APU	Auxiliary Power Unit
BAA	Backup Aerospace Vehicles Authorization
BAI	Backup Aerospace Vehicles Inventory
BAI-AR	Backup Aerospace Vehicles Inventory - Attrition Reserve
CAIG	Cost Analysis Improvement Group
CER	Cost Estimating Relationship
CLS	Contractor Logistics Support
COND	Condemnation
CSRD	Communications - Computer Systems Requirement Document
DAR	Data Automation Requirement
DDB	Detail Data Base
DECC	Defense Enterprise Computing Center
DISA	Defense Information System Agency
DM	Depot Maintenance
DMCF	Depot Maintenance Cost Factors
DMIF	Depot Maintenance Industrial Fund (same as DMS, AFIF)
DMS, AFIF	Depot Maintenance Service, Air Force Industrial Fund
DoD	Department of Defense
DPD	Data Project Directive
DPRO	Defense Plant Representative Officer
EFH	Engine Flying Hours
EINV	Engine Inventory
EPD	Engine Program Data
FH	Flying Hour
FSC	Federal Supply Class
FSG	Federal Supply Group
FY	Fiscal Year
G&A	General and Administrative
GFM	Government Furnished Material
GFS	Government Furnished Service

Table A1.1. (Continued) Acronyms and Terms

Acronym	Term
GPU	Ground Power Unit
HQ	Headquarters
HRM	Historic Reference Manual
I&S	Interchangeable and Substitutable
ICA	Independent Cost Analysis
ICD	Interface Control Document
ICS	Interim Contractor Support
INV	Inventory
LCC	Life Cycle Cost
MAJCOM	Major Command
MDS	Mission Design Series
MISTR	Management of Items Subject to Repair
NRTS	Not Repairable This Station
NSN	National Stock Number
OAC	Operating Active Aircraft
O&M	Operations and Maintenance
O&S	Operating and Support
OH	Operating Hours
OPR	Office of Primary Responsibility
OSD	Office of the Secretary of Defense
OVHL	On-equipment Overhaul
PA	Program Authority
PAA	Primary Aerospace Vehicles Authorization
PAI	Primary Aerospace Vehicles Inventory
PCN	Product Control Number
PCO	Procurement Contracting Officer
PDM	Programmed Depot Maintenance
PEC	Program Element Code
POL	Petroleum, Oil and Lubricants
PQC	Production Quantity Completed
QPA	Quantity Per Application
RCC	Resource Control Center
RCS	Report Control Symbol
RR	Reconstitution Reserve
SAF	Secretary of the Air Force
SDB	Summary Data Base
TAI	Total Aerospace Vehicles Inventory
TAMP	Tactical Air Missile Program
TMP	Theater Munitions Program
TMS	Type Model Series
TOC	Technical Order Compliance
USAF	United States Air Force
WBS	Work Breakdown Structure
WPC	Work Performance Category
WSCRS	Weapon System Cost Retrieval System
WSPD	Weapon System Program Data
WSSC	Weapon System Support Cost
WUC	Work Unit Code

Section C--Definitions

Actual Mission Design Series (MDS)--The nomenclature designation for both aircraft and missile weapon systems to indicate the prime intended mission, the sequence number of each design, and the series letter indicating significant changes to the logistics support.

Application--Identifies by stock number, federal supply class, program element code, propulsion system engine, aircraft or missile, the next higher indenture or end item of which the item is a part.

Backup Aerospace Vehicles Authorization (BAA)--Aero-space Vehicles over and above the primary authorized aerospace vehicles to permit scheduled and unscheduled maintenance, modification, and inspections and repair without reduction of aerospace vehicles available for the operational mission. No operating resources are allocated for these aerospace vehicles in the Defense budget. Formerly Non Operating Active Aerospace Vehicles Authorized (NOAA).

Backup Aerospace Vehicles Inventory (BAI)--The aerospace vehicles designated to meet the backup authorization. Formerly Non Operating Active Aerospace Vehicles (NOA).

Baseline Costs--Depot repair costs incurred with any of the following work performance categories: A-overhaul; B-progressive maintenance; D-activation; E-inactivation; F-renovation; G-analytical rework; I-repair; J-inspection and test; K-manufacture; L-reclamation; M-storage; and N-technical assistance.

Base Maintenance--Organizational and intermediate maintenance performed below depot level. It includes contractors performing at this level but excludes depot level maintenance performed at base level.

Class IV Modification--A modification necessary to correct an equipment deficiency or installation deficiency that affects maintainability, reliability, or in-flight safety. Class IV Modification consists of retrofit changes that are required to ensure safety of personnel systems or equipment by eliminating operational, nuclear, or physical hazard; necessary to correct a deficiency (including one that affects reliability, maintainability, electromagnetic compatibility, or communications security); or required for logistics support purposes.

Class V Modification--A modification to change the physical configuration or functional characteristics of a system or equipment, that improve system operational capabilities. A Class V modification of a system or equipment will provide: (1) A change in operational requirements or performance which provides an added capability not inherent in the baseline configuration; (2) The capability to accomplish an assigned mission that the basic system or equipment was not originally designed to accomplish; (3) A significant and measurable training or logistic improvement certified essential by the command or the agency primarily concerned.

Common Item Cost--Cost for an item that is used on two or more different weapon systems.

Component--The lowest subassembly located within an equipment.

Condemned--The condition of an item or an assembly of items that makes it unsuitable for restoration to a serviceable condition or of no further value to the mission or the functions for which it was originally intended.

Constant-Year Dollars--Dollars expressed in a specific base year. The actual expenditures for a fiscal year are inflated or deflated as required for conversion to the base year equivalents.

Contract Maintenance--Any maintenance performed under contract by commercial organizations (including original manufacturers).

Contractor Logistics Support (CLS)--A method of providing all or portions of organizational, intermediate, or depot repair required to support a weapon system, weapon subsystem, or item of equipment. CLS is normally used to support short operational-life systems, or small inventories of commercial, off-the-shelf aircraft or equipment when establishment of AFMC organic life cycle logistics support is not planned for various reasons (usually not cost effective). Spares and repair parts are obtained off-the-shelf and are not normally provisioned and stocklisted by the Air Force. Under CLS, it is common for the contractor to provide all elements of support.

Depot--An AFMC industrial type facility established to perform accessory overhaul functions, or to perform modifications and maintenance in support of field and using organizations. This includes AFMC assigned installations and commercial contractors who are engaged in performing depot level work on weapon systems or equipment under a contract issued and managed by AFMC. This term also includes AFMC depot or contractor field teams that are dispatched to Air Force operating bases or stations for accomplishing depot level work or providing assistance to field and organizational maintenance activities.

Depot Field Team--Depot maintenance personnel who provide technical information, instructions, or guidance, or perform specific work requiring special skills, for operational activities or other maintenance organizations.

Depot Maintenance--That maintenance which is the responsibility of and performed by designated maintenance activities, to augment stocks of serviceable material, and to support Organizational Maintenance and Intermediate Maintenance activities by the use of more extensive shop facilities, equipment, and personnel of higher technical skill than are available at the lower levels of maintenance. Its phases normally consist of inspection; test; repair; modification; alterations; modernization; conversion; overhaul; reclamation or rebuilding of parts, assemblies, subassemblies, components, equipment, end items, and weapon systems; the manufacture of critical non available parts; and providing technical assistance to intermediate maintenance organizations, using and other activities. Depot maintenance is normally done in fixed shops or by depot field teams.

Depot Maintenance Cost Factors--Factors that may be used in models and cost studies to estimate weapon system depot maintenance costs. The factors are based on variable depot maintenance costs. For an aircraft, there are two factors. The

cost per aircraft factor represents variable depot maintenance costs that vary directly and linearly with changes in the operating aircraft inventory. The cost per aircraft flying hour factor represents variable costs that vary directly and linearly with changes in the flying hour program. For a missile, there is one factor. The cost per missile factor represents variable depot maintenance costs that vary directly and linearly with changes in the operating missile inventory. The variable costs include all organic and contract elements of expense incorporated in the DMIF charges to the customers. The organic cost portion covers civilian labor, expense material, variable overhead expenditures and military labor. The contract portion covers dollar payments to contractors and the dollar value of government furnished expense material and government furnished services provided to contractors. Repair costs for ground support equipment, ground communications, ground auxiliary power units, vehicles, trainers, and other non aeronautical equipment are not included. Repair costs for non-Air Force customers are also excluded.

Depot Maintenance Industrial Fund (DMIF)--The Depot Maintenance Service, Air Force Industrial Fund. It is a method of financing depot level maintenance operations by providing initial working capital and allowing recovery of operating costs through the sale of products or services. It provides the effective and economical use of resources and products. Through this technique costs are held in suspense until the ordering activity (customer) receives the serviceable product or service.

Direct Labor--Production-type, "hands-on" labor performed by a Resource Control Center (RCC) of a maintenance production branch or laboratory. Direct labor is defined as that labor which (1) increases the value or utility of a product by altering the composition, condition, conformation, or construction of the product or which provides a service directly to the customer rather than in support of other direct labor in the Directorate of Maintenance; (2) can be accurately, consistently, and economically identified to a product, group of products, or customer; (3) is supported by official work requests and authorized by prescribed work authorization documents (WAD) indicating the specific nature of the work to be done; and (4) is applied to the product or group of products of a customer outside the Directorate of Maintenance. All of these conditions must be met to warrant a direct labor classification except for work initiated internally by the Directorate of Maintenance such as the manufacture of equipment not prescribed by a supply or inventory manager request.

Direct Material--Expense material that enters directly into or becomes a part of the functional characteristic of the product and can be related to specific end items or readily measured and charged to specific job or end products. Expense material that does not meet the criteria for direct material is categorized as indirect material. Direct expense material is used in and can be readily identified to production RCC level.

End Item--This is a stock number, MDS, TMS, or locally assigned part number for separate identification of each equipment undergoing repair.

Exchangeable Item--Investment material such as pumps, electric motors, carburetors, and fuel controls. These items

have a potential use of more than once and are economically repairable. Exchangeable items are also commonly referred to as investment items, repairable items, recoverable items, or component items.

Expense Material--Material financed and managed under the Air Force Stock Fund which is recorded as an expense to the Depot Maintenance Industrial Fund upon issue from depot supply. Expense material includes non repairable spares, non repairable repair parts, and other expendable supplies and materials used in support of the depot maintenance operations. The DMIF reimburses the AF stock fund divisions which furnish expense material to the depot and contractor. Expense material is always used in production on a non exchange basis and the cost of this material is included in the amount charged to the customer for reimbursement to the DMIF.

Fixed Overhead--Overhead costs which can be identified to a depot maintenance activity but cannot be reasonably allocated or economically identified to an RCC of the depot maintenance activity. (This cost is equal to the funded General and Administrative [G&A] Overhead Cost.)

Funded Costs--Costs reimbursable to the depot maintenance activity from funds cited on the customer's reimbursable order authorizing performance of the maintenance.

General and Administrative (G&A) Overhead--Those costs not identified as direct cost or operations overhead. G&A overhead expenses are the costs of management and support organizational units serving the entire depot maintenance activity that cannot be reasonably allocated or economically identified to an RCC. G&A overhead expenses are classified as either funded or unfunded depending upon whether the DMIF reimburses the organization providing support. The funded G&A overhead costs are in direct support to the Directorate of Maintenance and the costs of support can be directly measured to the Directorate of Maintenance. The funded G&A overhead costs include support from civilian personnel, data automation, cost accounting, pay and travel, mail distribution, security, fire protection, and civilian personnel health services, and the Directorate of Maintenance organizations performing the functions of the resources management division, maintenance evaluation division, quality and industrial systems division, administrative services, and directorate of administration.

Government Furnished Material--Any item of government property provided to a government contractor for incorporation in the end articles to be produced under the terms of the contract.

Indirect Labor--Indirect labor is any labor used within a Resource Control Center (RCC) that does not meet the criteria for direct labor; this includes RCC supervision, RCC clerical, RCC standby, RCC training, maintenance of RCC's own equipment, and RCC miscellaneous duties (housekeeping, tours, medical, etc.).

Indirect Material--Expense material that cannot be identified directly to RCC production. It includes indirect production material such as bolts, nuts, washers, paint, etc.; staff and shop operating supplies; office supplies; office equipment; and expendable tools and equipment. Also included are inventory

changes, disallowed credits and proceeds from the sale of scrap. All indirect material costs are classified as either an operations overhead cost or a G&A overhead cost.

Interim Contractor Support (ICS)--Temporary organizational, intermediate, or depot level maintenance performed by a contractor while an organic maintenance capability is being phased in. ICS is a cost effective alternative of logistics support on high cost or high risk Class V modifications or weapon systems. It allows the Air Force to defer all or part of its investment in support resources until risk has been reduced.

Intermediate Maintenance--Base level maintenance which is the responsibility of and performed by designated maintenance activities to support using organizations. Its phases normally consist of calibration, repair or replacement of damaged or unserviceable parts, components or assemblies; the manufacture of critical non available parts; and providing technical assistance to using organizations. Intermediate maintenance is normally accomplished in fixed or mobile shops, or by mobile teams.

Interservice Maintenance--Maintenance, either recurring or non recurring, performed by the organic capability of one military service in support of another military service.

Investment Material--Investment material includes all recoverable assemblies, installed equipment items, and modification kits obtained from Central Procurement (investment) appropriations. Investment material is used in production on an exchange or non exchange basis. Exchange material is recoverable investment material which has been predetermined as suitable and economical for depot level repair. This material is turned into Depot Supply in either unserviceable or condemned condition. The exchange transaction consists of the issue of a serviceable item and the turn-in of an unserviceable item. Non exchange material is the serviceable material issued by Depot Supply when there is no turn-in of unserviceable items. When used on an exchange basis, the material cost related to production is the average cost to repair an item. When used on a non exchange basis, the material cost related to production is the full stocklist price of the item.

Maintenance Support--Functions which are not a part of depot, intermediate, or organizational maintenance, but which facilitate and perpetuate any or all of those levels of maintenance. An example is the preparation of maintenance work specifications which prescribe the inspections of work to be performed by maintenance organizations.

Mission Design Series (MDS)--The weapon system designator that uniquely identifies each aircraft and missile.

Off-Equipment Repair--All units of work done on components removed from an end item, except for "fix in place" and "removed for convenience" items for bench check or repair. In some cases, actions such as in-shop work on aircraft engines, removal of subassemblies from a major assembly etc., are documented as on-equipment actions.

On-Equipment Repair--Maintenance activity on or in the vicinity of the aircraft, missile, engine, or engine module.

Operations Overhead--Operations overhead costs are all indirect labor, indirect material, and services that can be reasonably allocated or economically identified to an RCC. Operations overhead costs include the maintenance functions of production division administration, production branches above RCC level, operations branch, planning and engineering branch, scheduling branch, inspection branch, and the quality assurance branch.

Organic Maintenance--That maintenance performed by a military department under military control using government-owned or controlled facilities, tools, test equipment, spares, repair parts, and military or civilian personnel.

Organizational Maintenance--Base level maintenance which is the responsibility of and performed by a using organization on its assigned equipment. Its phases normally consist of inspecting, servicing, lubricating, adjusting, and the replacement of parts, minor assemblies and subassemblies.

Other Direct Cost--This is the cost of per diem and travel expenses incurred in support of mission TDY. It also includes the cost of contract services performed in support of organic workloads. This includes contract support services only; it does not include contract depot level maintenance costs.

Overhaul--The disassembly, test, and inspection of the operating components of the basic structure to determine and accomplish the necessary repair, rebuild, replacement, and servicing required to obtain the desired performance.

Overhead--Operating costs, expressed in terms of resources, which cannot be effectively identified to a specific system, commodity, special program tenant, or support program other than the organization which incurs such operating costs. Overhead costs include all indirect labor, indirect material, and support services serving the depot maintenance activity. Overhead costs are classified as either operations overhead costs or general and administrative overhead costs.

Overhead Labor--Overhead labor is all labor used above the shop RCC level. This includes section and branch directors within the production branches and all other overhead labor other than the production branch.

Peculiar Item Cost--Cost for an item that is used on only one weapon system MDS.

Primary Aerospace Vehicles Authorization (PAA)--Aerospace Vehicles authorized to a unit for performance of its operational mission. The primary authorization forms the basis for the allocation of operating resources to include manpower, support equipment, and flying hour funds. Formerly Unit Equipment (UE).

Primary Aerospace Vehicles Inventory (PAI)--The aerospace vehicles assigned to meet the Primary Aerospace Vehicles Authorization. Formerly Operating Active Aerospace Vehicles (OA).

Programmed Depot Maintenance (PDM)--Maintenance performed on aircraft and end items on a regularly scheduled basis. PDM also includes non programmed maintenance requirements identified when end items arrive at the depot for PDM.

Resource Control Center (RCC)--The maintenance production organization which generates direct labor and direct material charges related to job order numbers.

Reconstitution Reserve (RR)---Inventory assigned to backfill PAA that have been expended or attrited. Formerly Backup Aerospace Vehicles Inventory - Attrition Reserve (BAI-AR) and, before that, Non Operating Active Aerospace Vehicles Attrition Reserve (NOA-AR).

Standard Mission Design Series (MDS)--The MDS to which one or more actual MDSs are reported.

Total Aerospace Vehicles Inventory (TAI)--The sum of the primary and backup aerospace vehicles assigned to meet the total aerospace vehicles authorization. TAI is the sum of PAI, BAI, and RR.

Then-Year Dollars--Actual expenditures for a given fiscal year expressed in that fiscal year's dollars.

Type Model Series (TMS)--The propulsion system designator that uniquely identifies each engine, engine module, engine gearbox, auxiliary power unit, and ground power unit.

Unfunded Costs--Costs expended in depot maintenance efforts that are financed by non depot maintenance appropriations or activities.

Variable Costs--Costs that vary directly with fluctuations in the volume of production. Operations overhead is an example of variable cost.

Weapon System--An instrument of combat either offensive or defensive used to destroy, injure, defeat, or threaten the enemy. It consists of a total entity of an instrument of combat (any single combat instrument that incorporates in itself a complex assembly of functional parts), for example, F-111 aircraft or Maverick missiles.

Work Breakdown Structure (WBS)--Repair categories that define levels of the weapon system structure. (Reference Attachment 3 for a description of the WBSs).

Work Performance Category--One-position code that identifies the type of maintenance work performed. (Reference Attachment 2 for a description of the WPCs).

Work Unit Codes--The work unit code consists of five characters, and is used to identify the system, subsystem, and component on which maintenance is required, or on which maintenance was accomplished.

WORK PERFORMANCE CATEGORIES

Table A2.1. Work Performance Category Codes (active)

Code	Category	Code	Category
A	Overhaul	K	Manufacture
B	Progressive Maintenance	L	Reclamation
C	Conversion (Class V Mod)	M	Storage
D	Activation	N	Technical Assistance
E	Inactivation	W	Contractor Logistics Support (CLS)
F	Renovation	1	Interim Contractor Support (ICS)-Depot Level
G	Analytical Rework	2	Interim Contractor Support (ICS)-Base Level
H	Modification (Class IV Mod)		
I	Repair		
J	Inspection and Test		

Code A Overhaul--The disassembly, test, and inspection of the operating components and the basic structure to determine and accomplish the necessary repair, rebuild, replacement and servicing required to obtain the desired performance. It is considered to be synonymous with the term "rework" or "rebuild."

Code B Progressive Maintenance--A predetermined amount of work that presents a partial overhaul under a program that permits the complete overhaul to be done during two or more time periods. It is considered synonymous with the terms "cycle maintenance," "restricted availability," "preventive servicing," or "recondition."

Code C Conversion--The alteration of the basic characteristics of an item to such an extent as to change the mission, performance, or capability. This code identifies the Class V Modification installations.

Code D Activation--The depreservation, servicing, inspection, test and replacement of assemblies or subassemblies as required to return an item from storage or inactive pool status to operational use.

Code E Inactivation--The servicing and preservation of an item before entering storage or an inactive pool.

Code F Renovation--The proof and test evaluation and rework of ammunition or ordinance items as required for retaining their desired capability.

Code G Analytical Rework--The disassembly, test and inspection of end items, assemblies or subassemblies to determine and accomplish the necessary rework, rebuild, replacement, or modification required. It includes the technical analysis of the findings and determination of maintenance criteria. Includes prototype tear-down, analysis and rework of an item to determine job and material specifications on a future workload.

Code H Modification--The alteration or change of the physical makeup of a weapon system, subsystem, component, or part in accordance with approved technical direction. This code identifies Class IV Modification installation.

Code I Repair--Action taken to restore to a serviceable condition an item rendered unserviceable by wear, failure, or damage.

Code J Inspection and Test--The examination and testing required to determine the condition or proper functioning as related to the applicable specifications.

Code K Manufacture--The fabrication of an item by application of labor or machines to material.

Code L Reclamation--The authorized processing of end items, assemblies or subassemblies to obtain parts or components to be retained in the inventory before taking disposal action on the remaining items. Covers demilitarization actions on items before disposal when the demilitarization is incidental to the reclamation.

Code M Storage--The inspection, represervation, and maintenance in a storage status of weapons and equipment items as well as their subsystems and components in the supply system.

Code N Technical Assistance--The use of qualified depot maintenance personnel to provide technical information, instructions, or guidance, or to perform specific work requiring special skills for operational activities or other maintenance organizations. Includes all demilitarization other than that incidental to reclamation. This code identifies depot field team maintenance.

Code O--(not used).

Code P Programming and Planning Support--Includes consolidated long-range workload scheduling and resource utilization; centralized maintenance programming and planning for support of all levels of maintenance; all logistics support exclusive of engineering effort in the programming and development of maintenance support requirements for weapon systems and weapons support activities.

Code Q Maintenance Technical and Engineering Support--Includes the technical and engineering effort in development of maintainability concepts and the maintenance portion of logistics plans dealing with future and present weapons and equipment. Includes regional maintenance representatives, field liaison, maintenance technicians, contract technical services, contract engineering services in direct support of maintenance, contract technicians and engineers in direct support of maintenance.

Code R Technical and Engineering Data--Includes the preparation of technical and engineering data as applied to all categories of equipment. Includes engineering drawings, wiring diagrams, technical orders, engineering technical standards, technical handbooks, technical bulletins and similar publications. Provides for the preparation, editorial review and revision of equipment publications pertaining to the operation, repair and repair parts support of DOD material. Preparation includes, but is not limited to, the consolidation of source data, drawings and art work, editing, preparation of final printable copy, and printing. Includes significant identifiable effort with organic maintenance or at other DOD specialized support functions to produce data in support of maintenance, such as cryptographic or test equipment support data.

Code S Technical and Administrative Training--Includes educational units conducting maintenance training and training associated with new weapon systems or support systems which have been or will be introduced into the DOD inventory. At depot maintenance activities, only training associated with new equipment is maintenance support. This training is separately funded by specific funding documents. Other training accomplished at depot maintenance activities in support of the depot maintenance operation is not maintenance support, but a part of the depot maintenance operation.

Code T Non maintenance Work--Used to assure completeness of maintenance work force reporting.

Code W Contractor Logistics Support--A method of providing all or portions of organizational, intermediate, or depot support required to support a weapon system, weapon subsystem, or item of equipment. CLS is normally used to support short, operational-life systems, or small inventories of commercial, off-the-shelf aircraft or equipment when establishment of AFMC organic life cycle logistics support is not planned for

various reasons (usually not cost effective). Spares and repair parts are obtained off-the-shelf and are not normally provisioned and stocklisted by the Air Force. Under CLS, it is common for the contractor to provide all elements of support, that is, support equipment, data, spares and manpower. CLS differs from ICS in that it is a permanent rather than a temporary method of contractor support on a weapon system.

Code 1 Interim Contractor Support - Depot Level--Temporary depot level maintenance performed by a contractor while an organic maintenance capability is being phased in. ICS is a cost effective alternative of logistics support on high cost or high risk Class V modifications or weapon systems. It allows the Air Force to defer all or part of its investment in support resources (such as spares, technical data, support equipment, and training equipment) until risk has been reduced.

Code 2 Interim Contractor Support-Base Level--Temporary organizational and intermediate maintenance performed by a contractor while an organic maintenance capability is being phased in.

WORK BREAKDOWN STRUCTURE, WORK UNIT CODE, AND COMMONALITY CODES REFERENCE**A3.1. H036C Work Breakdown Structure Group Codes.****Table A3.1. WBS Group Codes**

Aircraft		Missile	
Code	Definition	Code	Definition
AA	Aircraft Accessories	GS	Guidance System
AF	Aircraft Overhaul	MA	Missile Accessories
AR	Armament	MF	Missile Frame
EA	Engine Accessories	MO	Missile Overhauls
EO	Engine Overhaul	PL	Payload System
SU	Support Equipment	PS	Propulsion System
VC	Avionics Communication	SC	Surface Communication and Control
VI	Avionics Instrumentation		
VN	Avionics Navigation	SL	Support and Launch

A3.2. Aircraft System Work Unit Codes.**Table A3.2. System WUC for Aircraft**

Code	Description	Code	Description
11	Airframes	56	Automatic All Weather Landing System
12	Cockpit and Fuselage Compartments	57	Integrated Guidance and Flight Control (includes Auto Pilot when part of Integrated System)
13	Landing Gear	58	In-flight Test Equipment
14	Flight Control	59	Target Scoring and Augmentation
15	Helicopter Rotor System	60	VLF/LF Communications
16	Escape Capsule	61	High Frequency (HF) Communications
17	Aerial Recovery System	62	Very High Frequency (VHF) Communications
19	Engine Starting	63	Ultra High Frequency (UHF) Communications
21	Reciprocating Power Plant	64	Interphone
22	Turboprop or Turbofan Power Plant	65	Identification Friend or Foe
23	Turbojet or Turbofan Power Plant	66	Emergency Communications
24	Auxiliary Power Plant	67	Super/Extra High Frequency (SHF/EHF)
25	Rocket Power Plant	68	Air Force Satellite Communications (AFSATCOM) System
26	Helicopter Rotary Wing Drive System	69	Miscellaneous Equipment
27	Turbojet/Turbofan Propulsion System (Continuation of WUC 23)	71	Radio Navigation
32	Hydraulic Propeller	72	Radar Navigation
33	Electro Hydraulic Propeller	73	Bombing Navigation
34	Mechanical and Fixed Pitch Propeller	74	Fire Control
39	Ice and Rain Protection	75	Weapon Delivery
41	Air Conditioning, Pressurization, and Surface Ice Control	76	Electronic Countermeasure
42	Electrical Power Supply	77	Photographic/Reconnaissance
43	Electrical Multiplex (EMUX)	78	ECM Special Systems (continuation of WUC 76)
44	Lighting System	81	Airborne Command and Control Surveillance Radar (AWACS)
45	Hydraulic and Pneumatic Power Supply	82	Computer and Data Display (Graphic)
46	Fuel System	89	Airborne Battlefield Command Control Center (Capsule)
47	Oxygen System	91	Emergency Equipment
48	Indicating/Recording	92	Tow Target Equipment
49	Miscellaneous Utilities	93	Drag Chute Equipment
51	Instrument	94	Meteorological Equipment
52	Autopilot	95	Smoke Generator, Scoring and Target Area, Augmentation Systems, and Airborne Cooperation Equipment
53	Drone Airborne Launch and Guidance Systems	96	Personnel and Miscellaneous Equipment
54	Telemetry	97	Explosive Devices and Components
55	Malfunction Analysis and Recording Equipment	98	Atmospheric Research Equipment
		99	Support Equipment

A3.3. Aircraft WBS Group Code to System WUC Cross-Reference.

Table A3.3. WBS to SWUC Cross-Reference for Aircraft

WBS Group Code	WUC	WBS Group Code	WUC	WBS Group Code	WUC	
AA	11	AR	75	VI	53	
	12				54	
	13	EA	21		VN	55
	14					56
	15					57
	16					58
	17					59
	19					26
	39					27
	41					32
	42			33		
	43			34		
	44			76		
	45			SU	99	78
	46					81
	47	VC	60	82		
	48			61		
	49			62		
	51			63		
	52			64		

Table A3.3. WBS to SWUC Cross-Reference for Aircraft

WBS Group Code	WUC	WBS Group Code	WUC	WBS Group Code	WUC
	77		65		
	91		66		
	92		67		
	93		68		
	94		69		
	95		89		
	96				
	97				
	98				

A3.4. H036C Commonality Codes.

Table A3.4. Commonality Codes and their Meanings

Code	Level	End Item Description
1	MDS Peculiar	Used on only one specific MDS, (e.g., applies to the KC135A aircraft only).
2	Modified Fleet Peculiar	Used on two or more MDSs within the same fleet and with the same modified mission, (e.g., applies only to two or more KC135s; two or more AC130s).
3	Fleet Peculiar	Used on two or more MDSs within the same fleet, (e.g., applies to C135A, KC135Q, and all EC135s; applies to all F16s).
4	Common	Used on two or more MDSs in different fleets, (e.g., applies to C141B and KC135R; applies to all F15s and F16s).

COMPLETE LIST OF PRODUCTS AVAILABLE FOR FY75 THRU FY93**Table A4.1. Detail Database Reports List**

Product Control Number/File Name	Report Name
Q-H036C-D01-IR-8IR	FYxx Detail Weapon System Cost Summary
Q-H036C-D02-IR-8IR	FYxx Condemnation Cost Ranking
Q-H036C-D03-IR-8IR	FYxx Component Depot Maintenance Cost Ranking
Q-H036C-D04-IR-8IR	FYxx Depot Maintenance Costs
DET.DWNNnD0.PRN	Download MDS Cost Reports
Q-H036C-E01-IR-8IR	FYxx Detail Engine Cost Summary
Q-H036C-E02-IR-8IR	FYxx Engine Condemnation Cost Ranking
Q-H036C-E03-IR-8IR	FYxx Engine Depot Maintenance Cost Ranking
Q-H036C-E04-IR-8IR	FYxx Engine Depot Maintenance Costs
DET.DWNNnE0.PRN	Download TMS Cost Report
FYxx Weapon System Commonality Report	
Q-H036C-250-IR-8IR	Part A: MDS Summary
Q-H036C-251-IR-8IR	Part B: Modified Fleet Summary
Q-H036C-252-IR-8IR	Part C: Fleet Summary
Q-H036C-253-IR-8IR	Part D: Mission Summary
Q-H036C-254-IR-8IR	Part E: Grand Total Summary
FYxx Recoverable Item Distribution Report	
Q-H036C-960-IR-8IR	Part A: MDS Summary
Q-H036C-961-IR-8IR	Part B: Modified Fleet Summary
Q-H036C-962-IR-8IR	Part C: Fleet Summary
Q-H036C-963-IR-8IR	Part D: Mission Summary
Q-H036C-964-IR-8IR	Part E: Grand Total Summary
Detail Database Extract	
DET.DDBMFn.PRN	DDB Extract (in mainframe format)
DET.DDBPCnn.PRN	DDB Extract (in PC format)

Table A4.2. Summary Database Reports List

Product Control Number/File Name	Report Name
Schedule 1: FYxx-FYyy Cost Factors in FYzz Dollars	
Q-H036C-S10-IR-8IR	Part A: MDS Summary
Q-H036C-S11-IR-8IR	Part B: Modified Fleet Summary
Q-H036C-S12-IR-8IR	Part C: Fleet Summary
Q-H036C-S13-IR-8IR	Part D: Mission Summary
SUM.DWNS1.PRN	Download S-10 Series MDS Cost Report
Schedule 2: FYxx-FYyy Cost Factors in Then Dollars	
Q-H036C-S20-IR-8IR	Part A: MDS Summary
Q-H036C-S21-IR-8IR	Part B: Modified Fleet Summary
Q-H036C-S22-IR-8IR	Part C: Fleet Summary
Q-H036C-S23-IR-8IR	Part D: Mission Summary
SUM.DWNS2.PRN	Download S-20 Series MDS Cost Report

Table A4.2. (Continued) Summary Database Reports List

Product Control Number/File Name	Report Name
Schedule 3: FYxx Cost Summary in FYxx Dollars	
Q-H036C-S30-IR-8IR	Part A: MDS Summary
Q-H036C-S31-IR-8IR	Part B: Modified Fleet Summary
Q-H036C-S32-IR-8IR	Part C: Fleet Summary
Q-H036C-S33-IR-8IR	Part D: Mission Summary
Q-H036C-S34-IR-8IR	Part E: Grand Total Summary
SUM.DWNS3.PRN	Download S-30 Series MDS Cost Report
Schedule 4: FYxx Cost Summary in FYzz Dollars	
Q-H036C-S40-IR-8IR	Part A: MDS Summary
Q-H036C-S41-IR-8IR	Part B: Modified Fleet Summary
Q-H036C-S42-IR-8IR	Part C: Fleet Summary
Q-H036C-S43-IR-8IR	Part D: Mission Summary
Q-H036C-S44-IR-8IR	Part E: Grand Total Summary
SUM.DWNS4.PRN	Download S-40 Series MDS Cost Report
Schedule 5: FYxx-FYyy Engine Cost Factors in FYzz Dollars	
Q-H036C-S50-IR-8IR	Part A: TMS (Individual) Summary
Q-H036C-S51-IR-8IR	Part B: TMS (Grouped) Summary
Q-H036C-S52-IR-8IR	Part C: TMS (Family) Summary
SUM.DWNS5.PRN	Download S-50 Series TMS Cost Report
Schedule 6: FYxx-FYyy Engine Cost Factors in FYzz Dollars	
Q-H036C-S60-IR-8IR	Part A: TMS (Individual) Summary
Q-H036C-S61-IR-8IR	Part B: TMS (Grouped) Summary
Q-H036C-S62-IR-8IR	Part C: TMS (Family) Summary
SUM.DWNS6.PRN	Download S-60 Series TMS Cost Report
Schedule 7: FYxx Engine Cost Summary in FYxx Dollars	
Q-H036C-S70-IR-8IR	Part A: TMS (Individual) Summary
Q-H036C-S71-IR-8IR	Part B: TMS (Grouped) Summary
Q-H036C-S72-IR-8IR	Part C: TMS (Family) Summary
SUM.DWNS7.PRN	Download S-70 Series TMS Cost Report
Schedule 8: FYxx Engine Cost Summary in FYzz Dollars	
Q-H036C-S80-IR-8IR	Part A: TMS (Individual) Summary
Q-H036C-S81-IR-8IR	Part B: TMS (Grouped) Summary
Q-H036C-S82-IR-8IR	Part C: TMS (Family) Summary
SUM.DWNS8.PRN	Download S-80 Series TMS Cost Report
Summary Database Interrogation Extracts	
SUM.SEG1.PRN	SDB Segment 1 Extract (in mainframe format)
SUM.SEG1PC.PRN	SDB Segment 1 Extract (in PC format)
SUM.SEG2.PRN	SDB Segment 2 Extract (in mainframe format)
SUM.SEG2PC.PRN	SDB Segment 2 Extract (in PC format)
SUM.DMCF.PRN	Depot Maintenance Cost Factors Data
SUM.EXCH.PRN	Exchangeables Repair Cost Data

Table A4.3. Weapon System Program Database Reports List

Product Control Number/File Name	Report Name
Q-H036C-A51-PA-8PA	Standard-Actual MDS PA Data
Q-H036C-A91-PA-8PA	Weapons System Program Data
Q-H036C-B91-PA-8PA	Engine Program Data

